



# ecology and environment, inc.

International Specialists in the Environment

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## MEMORANDUM

07X5  
Hopkins, R. Inc.  
IAD022096028  
1.6  
- 00 97

TO: Paul Doherty, EPA/START PO  
FROM: Rick Claytor, E & E/STM *RC*  
THRU: Hieu Q. Vu, P.E., CHMM, E & E/START PM *RC for H.Q.V.*  
DATE: April 22, 1998  
SUBJECT: Removal Assessment: R. V. Hopkins, Inc., Davenport, Iowa

CERCLIS ID No: IAD022096028  
SSID: 07X5  
TDD: S07-9711-007  
PAN: 0687RVSFXX  
EPA OSC: Jim Kudlinski

200270



S00194819  
SUPERFUND RECORDS

## INTRODUCTION

The Ecology and Environment, Inc. (E & E), Superfund Technical Assessment and Response Team (START) was tasked by the U.S. Environmental Protection Agency (EPA) Region 7 Emergency Response and Removal (ER&R) program, under Technical Direction Document (TDD) S07-9711-007, to modify and implement a Quality Assurance Project Plan (QAPP), which had been previously used, at R. V. Hopkins, Inc., an active drum-recycling facility in Davenport, Iowa. Specifically, START was tasked to prepare a site-specific site safety plan (SSP), provide site documentation, and manage and document all samples that were collected for laboratory analysis. The EPA on-scene coordinator (OSC) for the project was Jim Kudlinski. START member (STM) Rick Claytor was assigned as the project manager.

## **BACKGROUND, SITE DESCRIPTION, AND SITE HISTORY**

R. V. Hopkins, Inc. is located at 743 Schmidt Road in Davenport, Iowa (see Attachment 1: Site Location Map). The facility is currently in operation, reconditioning and selling steel drums. The property covers approximately 7.7 acres and is located in a commercial/industrial area in the southwestern part of the city. The northern two-thirds of the property is situated atop an abandoned limestone quarry that has been filled with demolition debris and other fill material.

In June 1984 the E & E Field Investigation Team (FIT) conducted a site investigation under TDD R-07-8402-13A to document the extent of site-generated wastes and to evaluate the potential for those wastes to migrate off-site via ground water, surface water, soil and/or air routes. The final report for the R. V. Hopkins, Inc., site investigation, which was prepared by Region 7 REM/FIT on February 13, 1985, concluded that a wide variety of inorganic and organic pollutants was present in surface soils on the property and also in off-site soils at downgradient locations. The on-site surface soil samples contained lead concentrations ranging from 230 to 20,000 parts per million (ppm). Concentrations as high as 8.4 ppm were reported for phenol and Endrin. Contaminants were also identified in ground water and sediments from monitoring wells that were installed on the property.

On November 30 and 31, 1993, the E & E Technical Assistance Team (TAT) systematically inspected the facility, photographing and documenting leaking, bulging, corroded and/or precariously stacked drums inside the facility. At that time 3,681 drums were present in the warehouse on the south side of the property, 27 of which were identified as leaking and 12 that had observable holes but which were not leaking. Four rows of stacked drums were leaning due to broken pallets or crushed drums.

On January 3, 1994, EPA issued a Unilateral Administrative Order (UAO) to R. V. Hopkins, Inc. Included in the UAO was a requirement that the company properly dispose of hazardous wastes that had accumulated in the warehouse. Those wastes were subsequently transported off site for disposal by the end of June 1994.

On October 8, 1996, at the request of the EPA Region 7 Waste Management Division (WSTM), a Resource Conservation and Recovery Act (RCRA) Compliance Evaluation Inspection (CEI) was performed by EPA personnel at R. V. Hopkins, Inc. At that time, six hundred seventy-five 55-gallon metal drums potentially containing RCRA characteristic hazardous waste were identified on the property. Three hundred thirty-seven of those drums contained material described by the operator as burner ash. Those

drums were staged outside, near the north side of the warehouse. Three hundred thirty-eight 55-gallon metal drums of bag house dust were also being stored outside, north of the bag house, which is located on the west side of the manufacturing building. As a result of that inspection, 16 Notices of Violation (NOV) were issued. The violations included: illegal storage of hazardous waste, per Section 3005 of RCRA; storage of hazardous waste for over 1 year, per 40 CFR 268.50; leaking containers of hazardous waste, per 40 CFR 265.173(b); and unlabeled and undated containers of hazardous waste, per 40 CFR 262.34(a)(2) & 262.34(a)(1).

On May 6 and 7, 1997, the START was tasked under TDD S07-9704-001 to assist EPA with inventory and documentation of drums containing waste, and collection of representative samples. The wastes at the facility had been identified by the operator as either "burner ash" or "bag house dust". The 629 drums containing burner ash were staged in the northeastern portion of the property (see Attachment 2: Site Sketch), these drums (group A) were numbered by STMs, from A001 through A630, (number A509, inadvertently, was not used). One-fourth of the burner ash drums were opened, and about half of the opened drums were sampled. Some of the drums had been labeled as hazardous waste; D006 and D008—hazardous waste numbers for cadmium and lead—were listed when labels were present. Eighty samples were collected from the burner ash drums. Sixty-seven of the 80 samples were analyzed for total metals and Toxicity Characteristic Leaching Procedure (TCLP) metals. Eleven other samples were analyzed for total metals and TCLP metals, as well as volatile organic compounds (VOCs), TCLP VOCs, pH, and flash point. The two remaining samples were submitted for analysis of VOCs, TCLP VOCs, flash point and pH.

The "dust" drums were staged at two locations on the property. One group of "dust" drums was located in the northwest portion of the property. Those 184 drums were numbered from D001 to D184. The second group of "dust" drums was staged to the north of the bag house; those 156 drums were numbered from B001 to B156. Some labels were observed, but none of the drums was labeled as hazardous waste. From the D group, 45 of the 184 drums were opened. The drums were all found to contain a brown-to-gray material that appeared to be bag house dust, as had been indicated by the operator. Nine drums were sampled and analyzed for total metals and TCLP metals. One of the drum samples was also analyzed for total VOCs and TCLP VOCs. From the B group, containing 156 drums, 39 drums were opened and 7 were sampled. All samples were analyzed for total metals and TCLP metals and one sample was also analyzed for total and TCLP VOCs.

While on the site, it was discovered that four semi trailers parked on the property contained drums bearing hazardous waste labels with D006 and D008 designations. Hazardous waste labels were visible on some of the drums in each of the trailers. The drums in each of the trailers were counted, and a photograph was taken of each of the trailers; no samples were collected from any of these drums. Three hundred forty-four drums were identified in the trailers. Two waste piles located in the northwestern part of the property were also sampled. This material, which had been placed on plastic sheeting, was identified by the facility manager as incinerator waste. The largest pile was approximately 20 feet long, 10 feet wide and 2.5 feet deep. A multi-aliquot sample was collected from depths of 0 to 2 inches. The second waste pile was approximately 10 feet by 6 feet and was 3 feet high. It was sampled in a manner similar to the first pile. Both of the waste pile samples were analyzed for total metals and TCLP metals.

Ninety-eight samples, from 96 drums and two waste piles (soils), were analyzed by the laboratory. Thirty of the drum samples and both of the soils were identified as RCRA characteristic waste. Consequently, it was evident that hazardous waste was being held at the R. V. Hopkins, Inc., facility at the time of the assessment. The exact amount of waste could not be determined, because not all of the staged drums and none of the 344 drums located in the semi trailers were characterized.

START was tasked to modify the previously used QAPP (see Attachment 3: Quality Assurance Project Plan), for the followup inventory and sampling of the drums on the property that were labeled as, or staged with, drums containing waste. The site activities were conducted on December 16, 1997, under a criminal warrant that was served by EPA Criminal Investigation Division (CID) and local law enforcement officials. Representative drum samples were collected to determine whether any of the materials being stored (but which had not been inventoried or sampled in May 1997) at R. V. Hopkins, Inc., were RCRA hazardous wastes and, if so, to determine the potential volume and type of the wastes currently being held at the facility.

#### **SITE ACTIVITIES**

(b) (7)(E)

The majority of the burner ash drums (A Drums) that had been inventoried and numbered in May 1997 were still located in the northeastern portion of the property. The bag house dust (B Drums) had been moved from the area near the bag house; some of them were found with the D Drums in the northwestern part of the property. The D Drums, along with some A Drums and B Drums were staged in the same area that they had occupied in May 1997 (see the attached Site Sketch). Those drums were still on wooden pallets, but they had been pushed together, leaving no spaces, or isles.

The samples that were collected in May 1997 identified the contents of 30 drums and both of the waste piles as RCRA hazardous waste. During the inventory process 23 of these drums were identified; three were found to be empty. Photographs were taken of 19 of the drums and both of the waste piles. One drum, A518, was present but was not photographed. The empty drums were not photographed (see Attachment 5: Photographic Record). The following table provides the status of the drums and waste piles that in May 1997, were determined to contain RCRA hazardous waste.

Sample #	Observed 12/16/97	Drum #	Contaminant	Analysis	Concentration*	Reg. Level*
APXX5100	No	A006	Lead	TCLP	54.3	5.0
APXX5101	No	A013	Lead	TCLP	19.2	5.0
APXX5104	Yes	A033	Lead	TCLP	6.02	5.0
APXX5108	Yes	A050	Methyl ethyl ketone	TCLP	270	200
APXX5107	No	A045	Lead	TCLP	7.41	5.0
APXX5110	Yes	A071	Lead	TCLP	16.5	5.0
APXX5120	Yes	A186	Lead	TCLP	44.2	5.0
APXX5124	Yes	A173	Lead	TCLP	14.5	5.0
APXX5126	Yes	A165	Ignitability	Flash point	45.0°C	< 60°C
APXX5130	Yes	A143	Lead	TCLP	7.21	5.0
APXX5137	Yes	A385	Lead	TCLP	75.5	5.0
APXX5142	Yes	A364	Lead	TCLP	11.9	5.0
APXX5146	No	A345	Lead	TCLP	126.0	5.0
APXX5149	Yes	A462	Lead	TCLP	13.1	5.0
APXX5155	No	A488	Lead	TCLP	33.3	5.0
APXX5157	Yes But Empty	A501	Lead	TCLP	39.9	5.0
APXX5159	Yes But Empty	A508	Lead	TCLP	6.69	5.0
APXX5161	Yes (No Photo)	A518	Trichloroethylene	TCLP	2.5	0.5
APXX5168	Yes	A564	Lead	TCLP	11.5	5.0
APXX5169	Yes	A623	Lead	TCLP	11.1	5.0
APXX5170	Yes	A604	Ignitability	Flash point	50°C	< 60°C
APXX5140	No	A372	Lead	TCLP	19.4	5.0
APXX5148	Yes	A337	Lead	TCLP	10.0	5.0
APXX5174	Yes	A430	Lead	TCLP	32.8	5.0
APXX5175	Yes But Empty	A398	Lead	TCLP	8.92	5.0
APXX5176	Yes	A609	Lead	TCLP	16.6	5.0
APXX5180	Still Present	WP1**	Lead	TCLP	59.7	5.0
APXX5181	Still Present	WP2**	Lead	TCLP	11.3	5.0
APXX5185	Yes	D099	Lead & Chromium	TCLP	7.79 & 7.44	5.0

Sample #	Observed 12/16/97	Drum #	Contents	Analysis	Concentration*	Reg. Level*
APXX5188	Yes	D165	Chromium	TCLP	10.9	5.0
APXX5190	Yes	D071	Lead & Chromium	TCLP	5.0 & 10.2	5.0
APXX5191	No	B083	Chromium	TCLP	8.62	5.0

KEY: \*mg/L = Milligrams per liter.

\*\* = Waste Pile Samples

\*C = Degrees Celsius.

The drum summary sheets that had been completed in May were used as each group of drums was systematically inspected. The drums that were found were checked off. Any hazardous waste label information that had not been recorded was added to the summary sheets. If the drum was not found, a check was not recorded. If the drum was found, but was empty, an "O" was noted on the summary sheet (see: Attachment 4: Drum Summary Forms). Only 490 A group drums, 51 of which were empty, were identified; 629 had been numbered in May 1997. Of the 184 drums that had been identified in May as D drums, 154 were located. Only 63 of the 156 B group drums identified in May were located. The close staging and rusty condition of the B and D group drums made the identification process difficult.

Additional drums that had not been inventoried and numbered had been staged by facility employees with the groups of waste drums. Many in the A area were labeled as hazardous waste. A total of 811 drums was counted in the A area (182 more than were inventoried in May) (this does not include the empty drums). The D area contained 365 drums (25 more than the previous B and D drum count). No additional inventory or drum marking was conducted on the drums located in the B area. The four semi trailers that contained drums with hazardous waste labels were not observed during this site visit.

In the A area the OSC selected 29 drums as representatives of the 372 drums staged in the burner ash area. These 372 drums had not been numbered or inventoried in May 1997. The samples collected from the drums that were selected by the OSC were numbered from AKXX5001 to AKXX5029; the drums were marked with the corresponding numbers. Using a new stainless-steel spoon, the OSC filled one 8-ounce glass jar from each drum. The drums contained gray-to-black material having a pasty, sometimes clumpy consistency. Chips or clumps of varied colors were also observed in some of the drums. A field sheet was completed for each sample collected (see Attachment 6: Field Sheets and Chain of Custody Forms). A photograph of the sample staged on the drum from which it was collected was taken (see the Photographic Record). The sampled drums were inventoried, the hazardous waste label information, along with the volume, OVA readings, and description of the contents were recorded on summary sheets (see Drum Summary Forms). The samples were delivered by Kudlinski on December 17, 1997, to the Region 7 EPA Laboratory in Kansas City, Kansas for TCLP metals analysis.

## **FOLLOWUP ACTIVITIES.**

Laboratory data identified that 15 of the 29 samples contained lead concentrations exceeding the TCLP regulatory level of 5 mg/L (see Attachment 7: Analytical Data). No other metals were identified at concentrations exceeding the TCLP limits. The sample numbers and the lead concentrations are provided in the following table.

<b>TCLP LEAD SUMMARY TABLE</b>			
<b>Sample</b>	<b>TCLP Lead (mg/L)</b>	<b>Sample</b>	<b>TCLP lead (mg/L)</b>
AKXX5003	67.5	AKXX5016	16.5
AKXX5004	48.7	AKXX5020	25.3
AKXX5006	54.6	AKXX5021	103
AKXX5007	19.0	AKXX5023	23.1
AKXX5009	7.89	AKXX5024	17.3
AKXX5012	20.4	AKXX5026	85.6
AKXX5014	28.4	AKXX5027	84.0
AKXX5015	29.5		

## **CONCLUSIONS AND RECOMMENDATIONS**

START assisted EPA with site documentation and collection of representative samples from staged drums containing site-generated waste. Eight hundred eleven drums classified by the facility operator as burner ash were identified during the inventory activities. From the 237 drums that had not been inventoried in May 1997, 29 were selected and sampled. RCRA characteristic waste was identified to be contained in 15 of the drums. The TCLP lead concentrations that exceeded the regulatory level ranged from 7.89 to 103 mg/L. It was evident that hazardous waste was being held at the R. V. Hopkins, Inc., facility at the time of the assessment, and that a majority of the waste that had been identified in May 1997 was still present at the site. Additionally, drums of bag house dust were counted. Twenty-five drums that had not been inventoried and numbered in May were identified. None of the bag house drums were sampled during the December 1997 site visit.

### **Preremedial Considerations**

On July 7, 1982, a site inspection (SI) was conducted and an SI report was completed. The R. V. Hopkins, Inc., site has had contaminant pathways (i.e., ground water, surface water, soil exposure and air) examined during the aforementioned previous investigations.

### **Removal Considerations**

The presence of RCRA hazardous waste has been documented in drum contents and waste piles on the property, and past investigations have identified metals and organic contaminants in the soil and ground water at the site. The site meets the removal criteria stated in the NCP 40 CFR 300.415 (b) (2). The Removal Site Evaluation form was completed and attached to the START report submitted under TDD S07-9704-001.

### **ATTACHMENTS:**

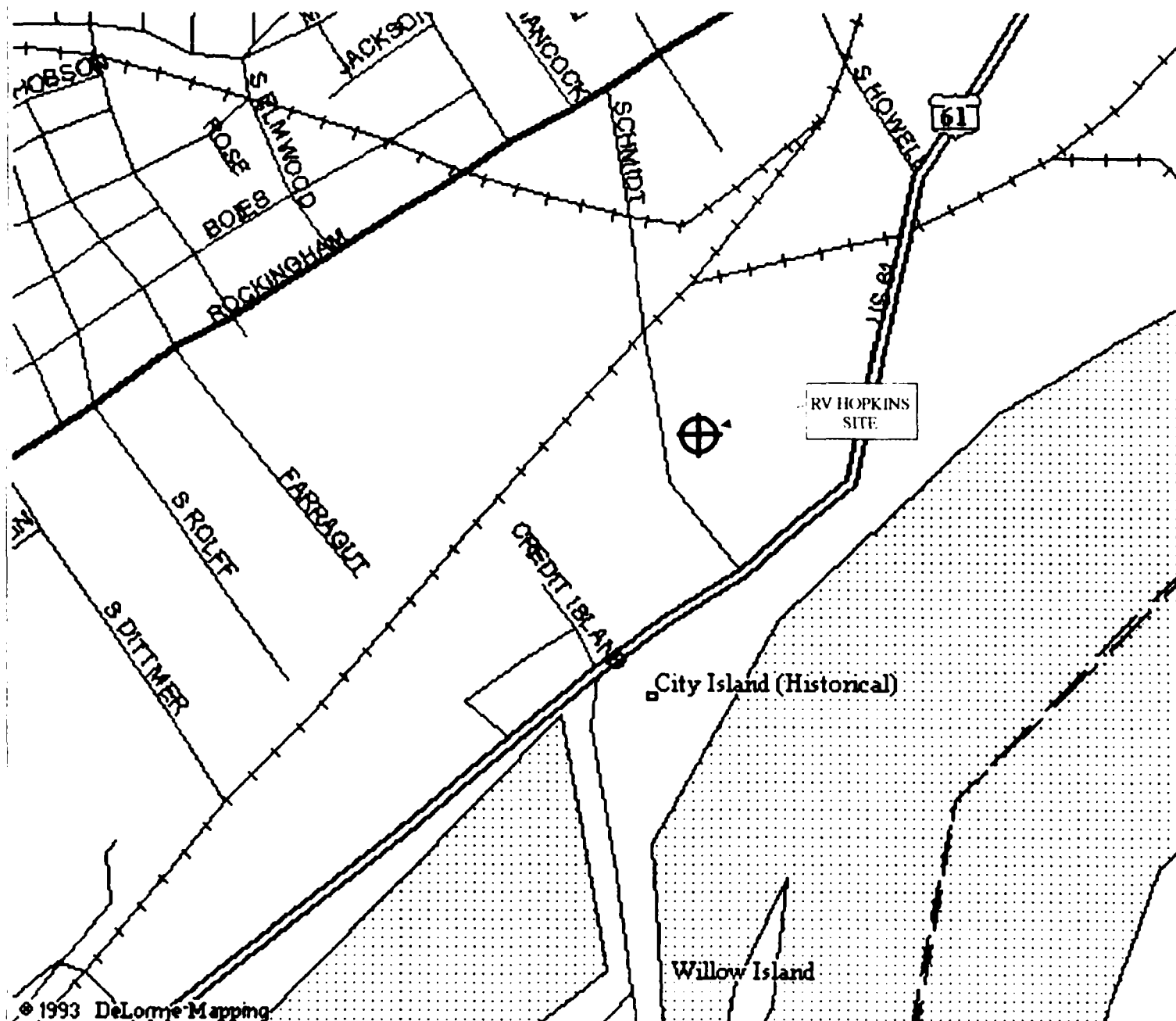
1. Site Location Map
2. Site Sketch
3. Quality Assurance Project Plan
4. Drum Summary Forms
5. Photographic Record
6. Field Sheets and Chain of Custody Forms
7. Analytical Data



## **ATTACHMENT 1**

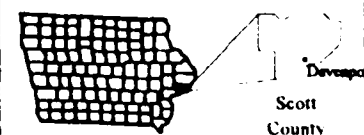
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### **Site Location Map**



**R.V. Hopkins, Inc**  
**743 Schmidt Road**  
**Davenport, Iowa**

TDD: S07-9711-007  
 PAN: 0687RVSEXX  
 Prepared by STM M.R. Mayo  
 January 1998



Key to Counties

APPROXIMATE SCALE

1 inch = 800



Prepared by: Mark Mayo  
 Ecology and Environment, Inc.  
 March 1997

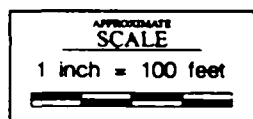
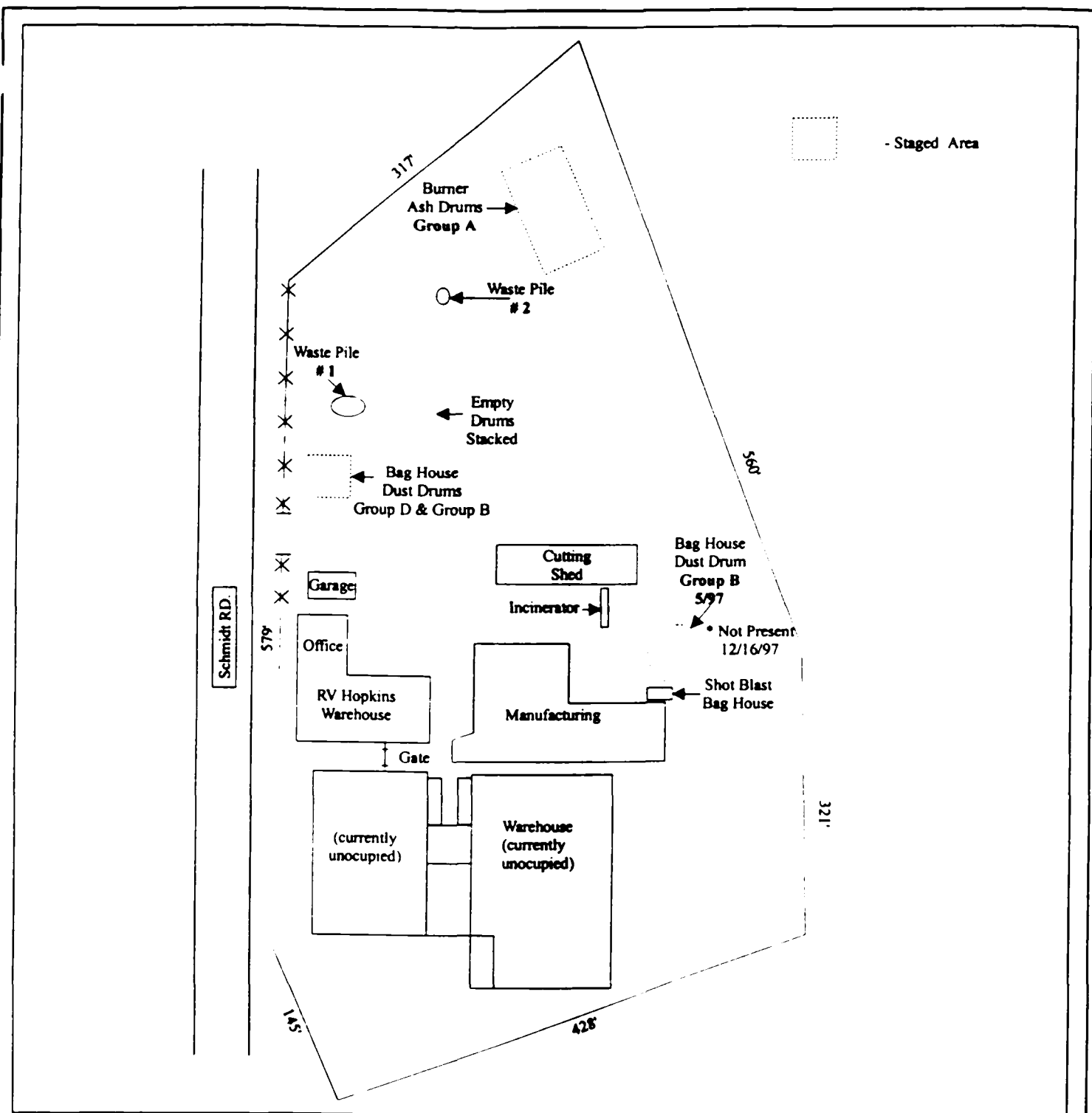
Figure 1: Site Location Map

Source: Mapexpert ver #2 by DeLorme

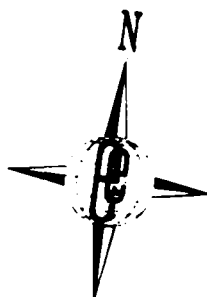
## **ATTACHMENT 2**

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### **Site Sketch**



ecology and environment, Inc.  
OVERLAND PARK, KANSAS



**R.V. Hopkins, Inc**  
**743 Schmidt Road**  
**Davenport, Iowa**

TDD: S07-9711-007  
PAN: 0687RVSFXX  
Prepared by STM M.R. Mayo  
January 1998

## **ATTACHMENT 3**

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### **Quality Assurance Project Plan**



# ecology and environment, inc.

International Specialists in the Environment

Cloverleaf Building 3, 6405 Metcalf  
Overland Park, Kansas 66202  
Tel: (913) 432-9961, Fax: (913) 432-0670

## MEMORANDUM

TO: Jim Kudlinski, EPA/OSC

FROM: Rick Claytor, E & E/STM *LP for RC*

THRU: Hieu Q. Vu, P.E., CHMM, E & E/START PM *RY for HQU*

DATE: November 13, 1997

SUBJECT: Addendum to the Quality Assurance Project Plan for the R. V. Hopkins Site, Davenport, Iowa

TDD: S07-9711-007  
PAN: 0687RVSFXX  
EPA OSC: Jim Kudlinski

Please review and comment on the attached addendum to the Quality Assurance Project Plan (QAPP) for the R. V. Hopkins site in Davenport, Iowa, where additional drum sampling is proposed to be conducted during the week of December 1, 1997. The original QAPP was approved (with comments) by the U.S. Environmental Protection Agency (EPA) Region 7 Quality Assurance Office (QAO) on April 24, 1997. The attached QAPP has been slightly modified from the original version to address the comments provided by the QAO.

**ADDENDUM**  
to  
**QUALITY ASSURANCE PROJECT PLAN**  
for  
**DRUM SAMPLING**  
at  
**THE R. V. HOPKINS SITE**  
**DAVENPORT, IOWA**

**Prepared For:**

United States Environmental Protection Agency Region 7 Superfund Division

**Prepared By:**

Ecology and Environment, Inc.  
Superfund Technical Assessment and Response Team

**November 12, 1997**

**APPROVED BY:**

*[Signature]* for Rick Clayton  
E & E START Project Manager

11/13/97  
Date

*[Signature]* for Harold U.  
E & E START Program Manager

11/13/97  
Date

\_\_\_\_\_  
EPA Site Manager

\_\_\_\_\_  
Date

\_\_\_\_\_  
EPA Regional Quality Assurance Manager

\_\_\_\_\_  
Date



**ecology and environment, inc.**

CLOVERLEAF BUILDING 3, 6405 METCALF, OVERLAND PARK, KANSAS 66202, TEL. 913/432-9961

International Specialists in the Environment

recycled paper

**ADDENDUM TO QAPP FOR DRUM SAMPLING  
AT THE R.V. HOPKINS SITE  
DAVENPORT, IOWA**

The original Quality Assurance Project Plan (QAPP) for the R.V. Hopkins site was written in April 1997, and field work was conducted on May 6 and 7, 1997. Background information for the site is provided in that QAPP. At the time of the May 1997 field activities, 629 staged drums of burner ash and 340 drums of bag house dust (as identified by the facility operator) were inventoried and given a unique number. Samples were collected from 96 of the inventoried drums. Laboratory analysis identified that 25 of the drums contained hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). In addition, during the site activities, 344 drums were observed in four semi trailers that were parked on the site. These drums were not sampled or numbered, and no information concerning their contents was available.

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**(b) (7)(E)** EPA On-Scene Coordinator (OSC) Jim Kudlinski will serve as the site manager, and four members of the Ecology and Environment, Inc. (E & E), Superfund Technical Assessment and Response Team (START) will compose the sampling team. The original QAPP will be implemented except where modifications are noted in the attached outline.

Some of the drums that were sampled in May 1997 will be re-sampled, assuming that they are still at the site and can be located. Samples will also be collected from drums that were not inventoried (were not numbered) and have been generated since the May 1997 site visit. It is not known how many additional drums will be present. It is estimated that no more than 50 samples will be collected to represent the materials held at the facility. The determination of which drums to sample will be made by the OSC in the field. The samples will be analyzed by the EPA Region 7 Laboratory as before. The samples will be analyzed for Toxicity Characteristic Leaching Procedure (TCLP) metals, total concentrations of TCLP metals, and pH. If any samples are sludges or liquids, those will also be analyzed for TCLP volatile organic compounds (VOCs) and flash point.



**OUTLINE OF CHANGES TO THE ORIGINAL QAPP  
FOR DRUM SAMPLING AT THE R.V. HOPKINS SITE  
DAVENPORT, IOWA**

**1.0 PROJECT MANAGEMENT**

- 1.1 Distribution List . . . . . **START Project Manager to be determined**
- 1.2 Project/task Organization . . . . . **As noted**
- 1.3 Problem Definition/background . . . . . **Unchanged**
- 1.4 Project/task Description: **Drum samples will be collected from: 1) previously sampled drums, identified as containing RCRA hazardous waste, and 2) drums that have been generated by the facility since the previous sampling event in May 1997 (i.e., drums that were not inventoried in May 1997 and/or drums identified by the operator as burner ash or bag house dust and/or any unlabeled drums located on the property). Fifty samples will be collected to represent the drummed materials held at the site.**
- 1.5 Quality Objectives and Criteria for Measurement Data . . . . . **Unchanged**
- 1.6 Special Training Requirements/certification . . . . . **Unchanged**
- 1.7 Documentation and Records . . . . . **Unchanged**

**2.0 MEASUREMENT/DATA ACQUISITION**

- 2.1 Sampling Process Design: **Unchanged, except that approximately 50 drum samples will be collected.**
- 2.2 Sampling Methods Requirements: **Unknown number of drums present, a maximum of 50 samples will be collected.**
- 2.4 Analytical Methods Requirements . . . . . **Unchanged**
- 2.5 Quality Control Requirements . . . . . **Unchanged**
- 2.6 Instrument/equipment Testing, Inspection, and Maintenance Requirements . . . . **Unchanged**
- 2.7 Instrument Calibration and Frequency . . . . . **Unchanged**
- 2.8 Inspection/acceptance Requirements for Supplies and Consumables . . . . . **Unchanged**
- 2.9 Data Acquisition Requirements . . . . . **Unchanged**
- 2.10 Data Management . . . . . **Unchanged**

**3.0 ASSESSMENT/OVERSIGHT**

- 3.1 Assessments and Response Actions . . . . . **Unchanged**
- 3.2 Reports to Management . . . . . **Unchanged**

**4.0 DATA VALIDATION AND USABILITY**

- 4.1 Data Review, Validation, and Verification Requirements . . . . . **Unchanged**

**OUTLINE OF CHANGES TO THE ORIGINAL QAPP  
FOR DRUM SAMPLING AT THE R.V. HOPKINS SITE  
DAVENPORT, IOWA  
(Continued)**

- 4.2 Validation and Verification Methods . . . . . **Unchanged**
- 4.3 Reconciliation with User Requirements . . . . . **Unchanged**

**ATTACHMENTS:**

- A: Site Map . . . . . **Unchanged**
- B: Analytical Services Request Form . . . . . **New form attached**

QUALITY ASSURANCE PROJECT PLAN

FOR

DRUM SAMPLING AT  
THE R. V. HOPKINS SITE

DAVENPORT, IOWA

Prepared For

U.S. EPA Region VII Superfund Division

Prepared By:

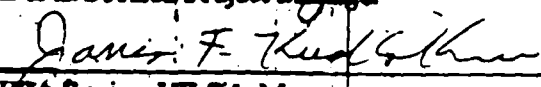
Ecology and Environment, Inc.  
Superfund Technical Assessment and Response Team

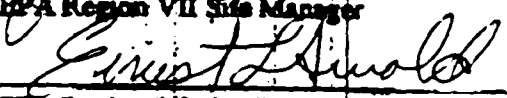
April 9, 1997

SIO  
QQIX5  
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RECEIVED  
APR 14 1997

APPROVED BY

  
E & E/START Project Manager

  
EPA Region VII Site Manager

  
EPA Region VII Quality Assurance Manager

4/11/97  
Date

4/11/97  
Date

4/24/97  
Date

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## ATTACHMENTS

- A: Site Map
- B: Analytical Services Request Form

## **1.0 PROJECT MANAGEMENT**

### **1.1 Distribution List**

**EPA - Region VII**

**Jim Kudlinski, Site Manager  
Paul Doherty, EPA/START Project Officer  
Ernie Arnold, QA Manager  
Andrea Jirka, Lab Director**

**Ecology and Environment, Inc./START**

**Rick Claytor, Project Manager  
Joe Chandler, QA Manager  
Hieu Q. Vu, E & E/START Program Manager**

### **1.2 Project/Task Organization**

Jim Kudlinski, an on-scene coordinator (OSC) for the Region VII U.S. Environmental Protection Agency (EPA), will serve as the site manager for the activities described in this Quality Assurance Project Plan (QAPP) to be conducted at the R. V. Hopkins site in Davenport, Iowa. He will be responsible for overall coordination of site activities, ensuring implementation of the QAPP, and providing periodic updates to EPA regional management concerning the status of the project, as needed. Ernie Arnold, Region VII EPA Quality Assurance (QA) Manager, will be responsible for review and approval of this QAPP. Andrea Jirka, EPA Laboratory Director, will coordinate/schedule laboratory analysis, data review, and validation of results.

Six members from the Ecology and Environment, Inc. (E & E), Superfund Technical Assessment and Response Team (START) will compose the sampling team. Rick Claytor will serve as the project manager, with an assistant to be selected at a future date. The team will be responsible for acquisition and calibration of sampling equipment, sample collection, field documentation, and submittal of the samples to the Region VII EPA Laboratory in Kansas City, Kansas, for analysis. Joe Chandler, E & E QA Manager, will provide technical assistance, as needed, to ensure that necessary QA issues are adequately addressed.

### **1.3 Problem Definition/Background**

The R. V. Hopkins site is located at 743 Schmidt Road, just north of West River Road in the southwest portion of Davenport. The site occupies approximately 7.7 acres and is situated in a commercial/industrial area. The structures on the site include two office/warehouse buildings, a manufacturing building, a warehouse, a small garage, a drum cutting shed and an incinerator. The buildings are on the southern part of the site, with the northern part of the property being open. (Attachment A: Site Map).

The R. V. Hopkins facility is currently in operation, reconditioning and selling used steel drums. The plant employs about 32 persons. Approximately 10,000 drums per month are processed by the facility. The interiors of the drums are cleaned by one of two processes: a dry process or a wet process. The dry process is used for open top drums and is accomplished by inverting the drums over a burner. This generates a burner ash, which is managed as toxic characteristic hazardous waste (D006 and D008).

The wet process involves immersing the closed-top drums in an alkaline bath to clean the interiors of the drums. The process takes place in one tank, and the sludge that is generated is removed from the tank every 2 to 3 weeks and is reused after it is allowed to settle out in a 55-gallon drum. The hardened caustic sludge is then returned to the tank, and water is added to allow the process to continue. The exterior of each drum is stripped of paint in a shot blast device located within the manufacturing building. This process generates dust that is collected in a bag house and then placed into drums.

On November 30 & 31, 1993, the E & E Technical Assistance Team (TAT) conducted a systematic inspection of the facility, photographing and documenting leaking, bulging, corroded and/or leaning drums inside the facility. At that time 3,681 drums were present in the warehouse, 27 of which were identified as leaking and 12 with observable holes but which were not leaking. Four rows of drums were leaning due to broken pallets or crushed drums.

On January 3, 1994, EPA issued a Unilateral Administrative Order (UAO) to R. V. Hopkins. Included in the UAO was a requirement that Hopkins properly dispose of hazardous wastes that had accumulated in a warehouse on the south side of the property. Those wastes were transported off site for disposal by June 1994.

On October 8, 1996, at the request of the EPA Region VII Waste Management Division (WSTM), a Resource Conservation and Recovery Act (RCRA) Compliance Evaluation Inspection (CEI) was performed at R. V. Hopkins. At that time six hundred seventy-five 55-gallon drums of hazardous waste were identified on the property. Three hundred thirty-seven 55-gallon drums of burner ash were stored at the facility, they were staged outside, near the north side of the warehouse. Three hundred thirty-eight 55-gallon drums of bag house dust were stored outside, north of the bag house, which is located on the west side of the manufacturing building.

As a result of that inspection, 16 Notices of Violation (NOV) were issued. The violations included: illegal storage of hazardous waste, per Section 3005 of RCRA; storage of hazardous waste for over 1 year, per 40 CFR 268.50; leaking containers of hazardous waste, per 40 CFR 265.173(b); and unlabeled and undated containers of hazardous waste, per 40 CFR 262.34(a) (2) & 262.34(a) (1).

#### **1.4 Project/Task Description**

START will inventory, label, and open all of the drums that are determined to potentially contain RCRA hazardous waste. The drums are the ones which have been identified as burner ash and bag house dust and staged by the operator. Approximately 10% of the drums (about 100) will be sampled; those drums will be selected on the basis of representativeness. The solid drum samples will be analyzed for Toxicity Characteristic Leaching Procedure (TCLP) metals, total concentrations of the TCLP metals, and pH. If the samples collected contain sludges or liquids, they will also be analyzed for TCLP volatile organic compounds (VOCs) and flash point. The information will be used to determine whether the stored material is hazardous and to estimate a waste volume.

Field activities are scheduled to begin May 5, 1997, and are expected to take about 5 days to complete. Samples are anticipated to be submitted to the Region VII EPA Laboratory in Kansas City, Kansas, for analysis on May 9, 1997. Procurement of supplies and equipment that are necessary to complete the sampling activities will be coordinated by START personnel.

## **1.5 Quality Objectives and Criteria for Measurement Data**

The data quality objective is to provide valid data of known and documented quality to:

- 1) Determine if any material stored at R. V. Hopkins is RCRA hazardous waste, and
- 2) Determine the volume and type of hazardous materials that are currently held at the facility.

Goals for analytical precision and accuracy are described in the analytical SOPs referenced in Section 2.4 of this QAPP. Because the determination of variation within the drum samples will not be critical to achieving the goals of this project, no duplicate samples will be collected to evaluate field precision. Representativeness will be addressed by collecting all samples as described in this QAPP. Comparability will be addressed by collecting, analyzing, and reporting all data as described in this QAPP.

## **1.6 Special Training Requirements/Certification**

The only formal training required of site personnel will be the completion of a basic 40-hour health and safety (Hazardous Waste Operations and Emergency Response [HAZWOPER]) training course and annual refreshers. Familiarization with drum sampling equipment/procedures will also be necessary for the START sampling team.

## **1.7 Documentation and Records**

START personnel will maintain a field logbook to record all pertinent activities associated with the sampling event. Appropriate documentation pertaining to photographs taken by START will also be recorded in the field logbook. Sample documentation will follow Region VII EPA/ENSV SOP #2130.3B: Identification, Documentation and Tracking of Samples. Information pertaining to drum samples (i.e., sampling dates/times, drum numbers, etc.) collected during this event will be recorded on LAST field sheets provided by Region VII EPA personnel (generated by the Labor and Sample Tracking System [LAST]). Labels generated by the LAST system will be affixed to sample containers, identifying sample numbers, dates collected, and requested analyses.

Analytical information will be handled according to Region VII EPA/ENSV SOPs #2410.1B: LABO Analytical Data Management Procedures and #2410.10A: Analytical Data Submission Packages.

# **2.0 MEASUREMENT/DATA ACQUISITION**

## **2.1 Sampling Process Design**

The physical appearance and quantity of each drum's contents will be noted in a field logbook. After all drums have been opened and inspected, approximately 10% will be selected for sampling to represent the most common waste streams (see Section 2.4 for analytical parameters). A headspace reading for VOCs will be taken from the air space in the top of each drum when it is opened, using an organic vapor analyzer (OVA), to determine a relative concentration of VOCs in the drums contents. If the reading exceeds 500 parts per million (ppm), and if the drum's contents are non-solid, a sample

will also be collected for TCLP analysis of VOCs, in addition to the other parameters listed in Section 2.4. The physical characteristics of the material within each drum will be recorded on the respective field sheet at the time of sample collection.

Each representative drum sample will be collected with dedicated glass thieving rods or new stainless steel spoons and placed in laboratory-cleaned sample collection jars/vials. In order to prevent cross contamination, a clean pair of disposable gloves and a new sampling device will be used for each sample. If a drum contains multiple phases, each phase will be sampled and submitted as a separate sample.

## **2.2 Sampling Methods Requirements**

Drum sampling will follow the guidelines included in EPA Environmental Response Team (ERT) SOP #2009: "Drum Sampling". It is estimated that 100 drums will be sampled, additional drums that were not present in October 1996 are anticipated. A total of 150 samples could be collected if drums are found to contain more than one phase.

Disposal of investigation-derived wastes and procedures for equipment/personal decontamination will be addressed in a site-specific health and safety plan that will be prepared by START.

## **2.3 Sample Handling and Custody Requirements**

Samples will be collected in accordance with procedures defined in Region VII EPA/ENSV SOP #2130.4B: Sample Container Selection, Preservation and Holding Times. Chain of custody will be maintained for the collected samples, as directed by Region VII EPA/ENSV SOP #2130.2A: Field Chain of Custody for Environmental Samples. All samples will be hand delivered to the Region EPA Laboratory, where they will be accepted according to Region VII EPA/ENSV SOP #2420.1A: Sample Receipt & Log-In.

## **2.4 Analytical Methods Requirements**

The solid drum samples will be analyzed for TCLP metals (excluding mercury), total concentrations of the TCLP metals (excluding mercury), and pH. Non-solid drum samples will additionally be analyzed for TCLP VOCs and flash point. The samples will be analyzed according to the following SOPs:

- TCLP extraction procedure: Region VII EPA/ENSV SOP #3171.1A: Toxicity Characteristic Leaching Procedure (TCLP).
- Drum samples for metals: Region VII EPA SOP #3122.2B: Analysis of Metals by TJA ICAP 61 using an inductively coupled plasma (ICP) spectrometer.
- Volatile organic compounds: Region VII EPA/ENSV SOP #3230.1C: GC/MS Analysis of Volatile Organic Compounds.
- pH: Region VII EPA/ENSV SOP #3135.4A: pH, Soil, or SOP #3135.5A: pH Lab, Water, as determined by the sample matrix.
- Flash point for the non-solid samples: SW-468 Method 1020: Setaflash Closed-Cup Method for Determining Ignitability.

Detection limits that are typically reported by the Region VII EPA Laboratory for those analyses are expected to be adequate for this activity. See Attachment B for a summary of projected samples and



requested analyses. The overall implementation of a quality assurance program by the laboratory is addressed in Region VII EPA/ENSV SOPs #1610.1C: Regional Laboratory Quality Control Policy and #1640.1A: Region VII Laboratory Quality Assurance Project Plan.

## **2.5 Quality Control Requirements**

Because dedicated supplies will be used for drum samples (i.e., disposable glass thieving rods and new stainless steel spoons), no rinsate samples will be collected to assess the potential for cross-contamination. Because total precision of sampling and laboratory analysis will not be evaluated for this activity, no field duplicate samples will be collected. Analytical error (precision and accuracy) will be determined by the analysis of laboratory-prepared duplicates and spike samples. Those criteria, along with other laboratory QC elements, will be addressed in accordance with the previously referenced analytical SOPs and Region VII EPA/ENSV SOP #1610.1C.

## **2.6 Instrument/Equipment Testing, Inspection, and Maintenance Requirements**

Testing, inspection, and maintenance of analytical instrumentation will be performed in accordance with the previously referenced analytical SOPs and manufacturers' recommendations.

## **2.7 Instrument Calibration and Frequency**

The only field instrument that will require calibration is a Foxboro Model 128 OVA, which will be calibrated at the site according to the manufacturer's specifications immediately prior to drum opening. Calibration of laboratory equipment will be performed as described in the previously referenced analytical SOPs and manufacturers' recommendations.

## **2.8 Inspection/Acceptance Requirements for Supplies and Consumables**

No special requirements are needed.

## **2.9 Data Acquisition Requirements**

No data from other sources will be used.

## **2.10 Data Management**

All laboratory data acquired by the Region VII EPA Laboratory will be managed in accordance with Region VII EPA/ENSV SOPs #2120.2A: Document Control and #2410.10A: Analytical Data Submission Packages", and 2410.1B.

# **3.0 ASSESSMENT/OVERSIGHT**

## **3.1 Assessments and Response Actions**

Field audits of sampling procedures may be scheduled for this sampling event. Assessments and response actions pertaining to analytical phases of the project are addressed in Region VII EPA/ENSV SOPs #1610.1C and #1640.1A and in the previously referenced analytical SOPs. Those documents

identify out-of-control conditions, who is responsible for initiating corrective actions, and what corrective steps should be taken.

### **3.2 Reports to Management**

Laboratory results will be reported to the EPA site manager (by lab personnel) in accordance with Region VII EPA/ENSV SOP #2110.1B: Labor and Sample Tracking (LAST) at ENSV. A letter report describing the sampling techniques, locations, problems encountered (with resolutions to those problems), and interpretation of analytical results will be prepared by START and submitted to EPA, following completion of the field activities described herein and receipt of validated laboratory data. A summary report will also be prepared by the EPA site manager for submittal to Region 7 EPA management to document the status of the site and specify further response actions that are warranted.

## **4.0 DATA VALIDATION AND USABILITY**

### **4.1 Data Review, Validation, and Verification Requirements**

Data review and verification will be performed by a qualified laboratory analyst and the laboratory's section manager, as described in Region VII EPA/ENSV SOPs #1610.1C and #1640.1A. The EPA site manager will be responsible for overall validation and final approval of the data, in accordance with the projected use of the results.

### **4.2 Validation and Verification Methods**

The data will be validated in accordance with Region VII EPA/ENSV SOPs #1610.1C and #1640.1A. QC spot checks will be performed by Region VII EPA Laboratory personnel, following criteria outlined in Region VII EPA/ENSV SOPs #1640.1A and #1610.5A: Quality Control Spot Checks of Regional Laboratory Data Packages.

The EPA site manager will inspect the data to provide a final review and approval before it is entered as valid data into the LAST system. The EPA site manager will also compare the sample descriptions with the field sheets for consistency and will ensure that any anomalies in the data are appropriately documented.

### **4.3 Reconciliation with User Requirements**

If data quality indicators do not meet the project's requirements as outlined in this QAPP, the data may be discarded, and re-sampling and/or re-analysis may occur (as determined by the EPA site manager).

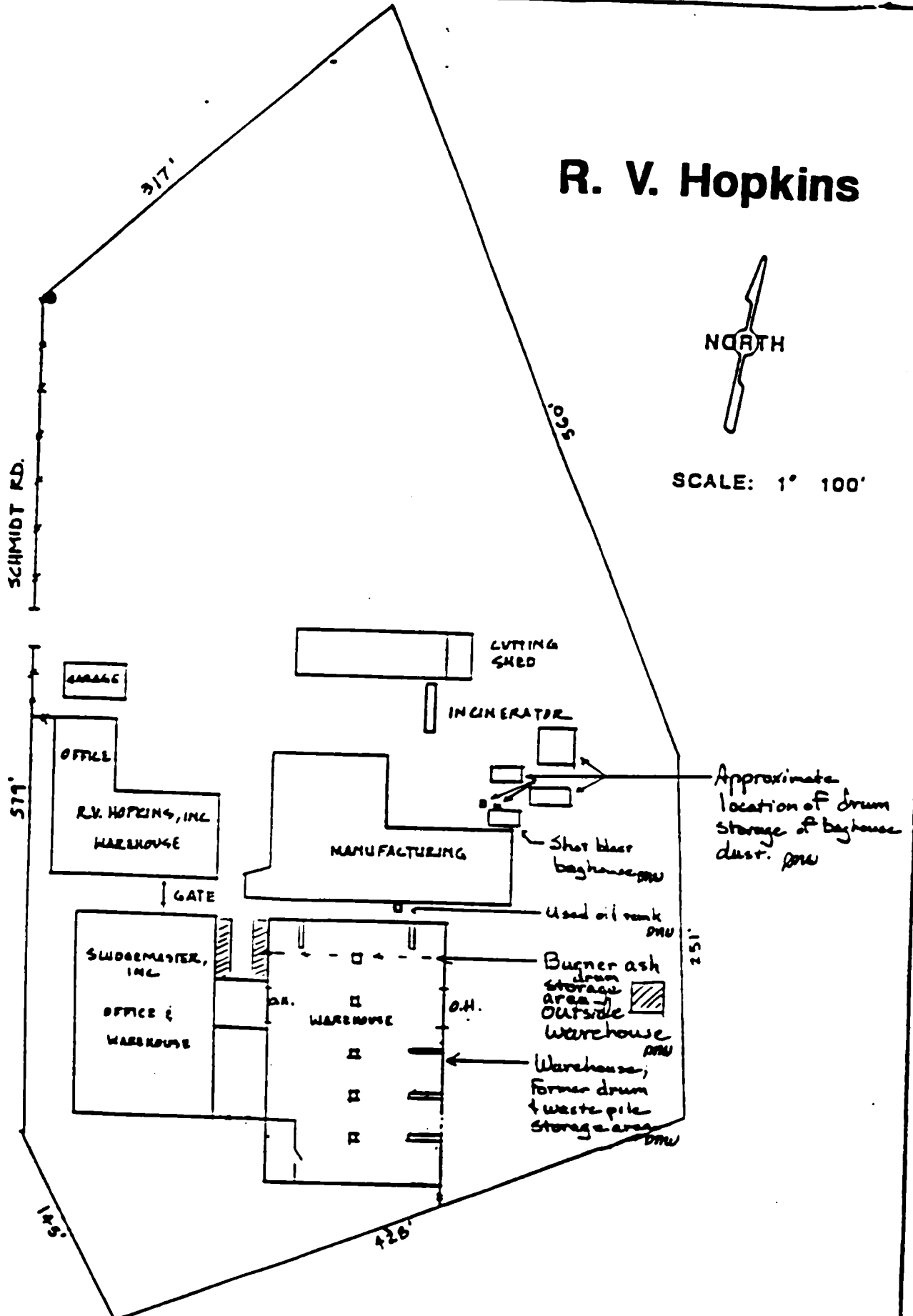
**ATTACHMENT A**

**Site Map**

R. V. Hopkins



SCALE: 1" = 100'



43 Schmidt Road

Davenport, Iowa

Prepared by: E & E START  
Source: Report of RCRA Compliance Inspection, 10/10/86

recycled paper

ecology and environment

TDD: S07-9704-001

DAN: 0404000000

**ATTACHMENT 4**

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**Drum Summary Forms**

abc 6/12/97

DRUM #	Descr. of Contents	Vol	Comments	OVA	Samp #	Date
A001	NO		burner ash/slag, upax recovery drum		APXX5	
A002	NO		top ash from surface 5/2/97			
A003	NO		top ash from surface 5/2/97			
A004	NO		burner ash from surface cleaning 5/2/97			
A005	black gray ash material	F	top ash from surface 5/2/97	100		5/6/97
A006	brown gray ash	F	rowl burn ash slag 75-76	500	100	5/6/97
A007						
A008						
A009						
A010	H-80 4/17/97 D006 + D008					
A011	H-80 4/17/97 D006 + D008					
A012						
A013	gray chunky clinkers of yellow	F	H8196 D006, D008	2 1/2	101	5/6/97
A014						
A015						
A016						
A017	<del>gray ash + clinker</del>	F		21000		
A018	gray ash + clinker	F		21000	102	5/6/97
A019						
A020						
A021	gray ash + clinker	F		2 1/2		
A022						
A023						
A024						
A025	brown dust	F		4	103	5/6/97
A026		F		1		
A027	ash + clinker					
A028						
A029						
A030	gray ash + clinker	F		10		

DRUM #	Descr. of Contents	Vol	Comments	OVA	Samp #	Date
AC31						
AC32						
S AC33	gray ash - wet	F		>1000	104	5/6/97
AC34	paint waste and ash	F	burner ash - 8/100 1/6	400	105	5/6/97
AC35						
AC36						
AC37	dark gray ash	F		850		
AC38						
AC39	bluish gray ash	F		65		
AC40	gray burner ash - slag	F		200	106	5/6/97
AC41		F				
AC42	burner ash + slag	F	burner ash + slag see B row 10 drums 1-8	300		
AC43						
AC44						
AC45	gray ash + slag	F	burner ash + slag row 2 drums 11-14 see B	>1000	107	5/6/97
AC46						
AC47	ash + paint waste	F		>1000		
AC48						
AC49	gray ash	F	112996 see date 0006 - 0008	>1000		
S AC50	oil liquid	F		>1000	108	5/6/97
AC51						
AC52						
AC53						
AC54						
AC55						
AC56						
AC57						
AC58						
AC59						
✓ AC60	liquid w/ paper filters	1/2		1		

DRUM #	Descr. of Contents	Vol	Comments	OVA	Samp #	Date
✓ A061						
✓ A062	ash + clinker	F		2.5		
✓ A063						
A064						
A065						
✓ S A066	ash + clinker H130/1/2/96 2000 + 2000	F	11/24/96 acc date D006 + D009	7100	178	5/6/97
A067						
A068	ash + clinker	SD	burner ash	1	109	5/6/97
A069						
✓ A070	H-02 5/12/95 D006 + D007					
✓ A071	ash + clinker H130/1/2/96 3000 + 3000	F	burner ash 2500 21000 acc. 5/5/96 acc	13	110	5/6/97
✓ A072						
✓ A073						
A074						
A075						
A076						
A077						
✓ S A078	redwood liquid	F		15	111	5/6/97
A079						
✓ A080						
✓ A081						
✓ A082						
✓ A083						
✓ A084						
✓ A085	ash + clinker	F		1	112	5/6/97
A086	ash + clinker	F	11/24/96 acc date burner ash D006 + D009	50	113	5/6/97
A087						
A088						
A089						
✓ S A090	ash + liquid red wood H130/1/2/96 2000 + 2000	F	11/24/96 acc date burner ash D006 + D009	>1000	114	5/6/97



DRUM #	Descr. of Contents	Vol	Comments	OVA	Samp #	Date
A121						
✓ A122						
A123						
✓ A124						
A125						
✓ A126						
✓ A127						
✓ A128	brown sticky material	F		200	116	5/6/97
A129						
A130						
A131						
✓ A132						
✓ A133	MCBL 2/10/97 1006 + 1006					
A134						
✓ A135	gray ash + chunker stickle	750		900		
✓ A136						
✓ A137						
A138						
✓ A139	gray ash + chunker	750		300		
✓ A140						
✓ A141	ash, brown	F		400	131	5/6/97
✓ A142	MCBL 2/10/97 1006 1006					
S ✓ A143	ash, fine + white MCBL 2/10/97 1006 + 1006	F	2/10/97 acc ash max max ash 1006 + 1006	>1000	130	5/6/97
A144	ash	F		120		
A145						
✓ A146						
✓ A147	ash	F		105		
✓ A148	MCBL late? 1006 + 1006	F	burner ash 1006 + 1006	0	129	5/6/97
✓ A149	MCBL 8/1/97 0000					
✓ A150						

DRUM #	Descr. of Contents	Vol	Comments	OVA	Samp #	Date
✓A181						
✓A182						
✓A183						
✓A184	ash - clinker	F		600	121	5/6/97
✓A185						
✓A186	paint sludge HCL 12/1/96 D006 + D008	F	11/27/96 burner ash	D006 D008	>1000	120 5/6/97
✓A187	HCL 11/29/96 D006 + D008					
✓A188	HCL 11/29/96 D006 + D008					
✓A189	ash D006 + D008	F	11/29/96	D006 D008	2	
✓A190						
✓A191	ash	F		Ø	119	5/6/97
✓A192						
✓A193	HCL 3/15/96 D006					
✓A194	ash	F		Ø	118	5/6/97
✓A195	HCL 1/25/94					
✓A196						
✓A197	ash	F		Ø		
✓A198						
✓A199						
✓A200	HCL 11/24/96 D006 + D008					
✓A201	HCL 11/24/96 D006 + D008					
✓A202	ash	F		1		
✓A203						
✓A204						
✓A205	ash	F		Ø	117	5/6/97
✓A206	ash HCL 11/24/96 D006 + D008	1/2				
✓A207						
✓A208						
✓A209						
✓A210	HCL 11/24/96 D006 + D008					

DRUM #	Descr. of Contents	Vol	Comments	OVA	Samp #	Date
✓A241						
✓A242						
✓A243						
✓A244						
✓A245						
✓A246						
✓A247						
A248						
A249						
✓A250						
✓A251						
✓A252	ash + sludge	F		100	132	5/6/97
✓A253						
✓A254	ash + sludge + slag	F		700		
✓A255	HLEL 4/19/95 D006 + D008					
A256						
A257						
A258						
✓A259						
A260						
✓A261						
✓A262	HLEL late? D006 + D008					
A263						
✓A264	HLEL 4/19/95 D006 + D008					
✓A265	HLEL 4/19/95 D006 + D008					
✓A266						
✓A267						
✓A268	HLEL 2/19/97 D006 + D008					
✓A269	HLEL 2/19/97 D006 + D008					
✓A270						

DRUM #	Descr. of Contents	Vol	Comments	OVA	Samp #	Date
✓ A301						
A302						
✓ A303						
✓ A304	ash + smudge	F		700		
✓ A305						
A306						
✓ A307						
✓ A308						
✓ A309						
A310	ash	F	418/499 acc oak DOCK DOOR?	1		
A311						
✓ A312						
✓ A313						
A314						
✓ A315						
✓ A316						
A317						
✓ A318	<del>smudge</del>	F		<del>3</del>	AS	
S ✓ A319	smudge	F		3	177	5/6/97
✓ A320	ash	1/2		Ø		
✓ A321						
A322						
A323						
✓ A324						
✓ A325	H 486 12/28/96 DOCK DOOR					
✓ A326						
✓ A327						
A328						
A329						
✓ A330						

DRUM #	Descr. of Contents	Vol	Comments	OVA	Samp #	Date
A 361	ash	F	7/18/95 acc a.c.R. DOCK DOCS	25		
A 362	ash	F		200	143	5/6/97
✓ A 363						
✓ A 364	ash	F		Ø	142	5/6/97
✓ A 365						
✓ A 366						
A 367						
A 368						
A 369	ash	F		>1000		
A 370						
S ✓ A 371	Sludge <sup>HCL</sup> 12/28/96 DOCK DOCS	F	12/28/96 DOCK DOCS	10	141	5/6/97
A 372	ash	F		3	140	5/6/97
✓ A 373						
A 374	ash	F	12/28/96 DOCK DOCS	90		
A 375						
A 376	ash	F	DOCK DOCS	Ø	139	5/6/97
A 377						
✓ A 378	<sup>HCL</sup> 2/19/97 DOCK + DOCS					
A 379						
A 380	ash	F		1		
A 381						
✓ A 382	ash <sup>HCL</sup> 12/28/96 DOCK + DOCS	F	12/28/96 DOCK DOCS	10	138	5/6/97
✓ A 383	<sup>HCL</sup> 12/28/96 DOCK + DOCS					
A 384						
✓ A 385	ash paint waste <sup>HCL</sup> 2/19/97 DOCK + DOCS	F	2/19/97 DOCK DOCS	>1000	137	5/6/97
A 386						
✓ A 387	solid plastic like material <sup>HCL</sup> 2/19/97 DOCK + DOCS	F	2/19/97 DOCK DOCS	Ø		
A 388	Sludge <sup>HCL</sup> 2/19/97 DOCK DOCS	F	2/19/97 DOCK DOCS	200	136	5/6/97
✓ A 389	<sup>HCL</sup> 2/19/97 DOCK + DOCS					
✓ A 390	<sup>HCL</sup> 2/19/97 DOCK + DOCS					

DRUM #	Descr. of Contents	Vol	Comments	OVA	Samp #	Date
A421						
✓ A422						
• A423						
✓ A424						
✓ A425						
✓ A426						
• A427						
• A428						
✓ A429	<sup>HCL</sup> 4/1/97 D006 + D008					
✓ A430	ash	74		400	174	5/6/97
✓ A431						
✓ A432	ash <sup>HCL</sup> 2/14/97 D006 band	F		100		
✓ A433	<sup>HCL</sup> 2/1/97 D006 + D008					
✓ A434						
• A435						
A436						
• A437						
✓ A438	<sup>HCL</sup> 2/1/97 D006 + D008					
• A439						
• A440						
• A441						
✓ A442	<sup>HCL</sup> 2/1/97 D006 + D008					
✓ A443	<sup>HCL</sup> 2/17/97 D006 + D008					
✓ A444	<sup>HCL</sup> 12/28/96 D006 + D008					
✓ A445	<sup>HCL</sup> 12/28/96 D006 + D008					
✓ A446	<sup>HCL</sup> 2/17/97 D006 + D008					
A447	> 1 drum w/ A448 - relabelled					
A448	another master drum is A447?					
✓ A449	<sup>HCL</sup> 2/1/97 D006 + D008					
✓ A450	<sup>HCL</sup> 12/2/96 D006 + D008					

DRUM #	Descr. of Contents	Vol	Comments	OVA	Samp #	Date
✓ A481	H-20L 2/9/97 Doneg + D-1.2					
• A482						
A483	ash	F	12/29/96	40		
• A484						
A485	liquid, sludge	F	2/19/97	25	154	5/6/97
• A486	ash	F	7	Ø		
• A487						
A488	ash	F	4/95	10	155	5/6/97
✓ A489	H-20L lined Don't + D-1.2					
✓ A490	H-20L 2/19/97 1006 + D-1.2					
✓ A491						
✓ A492						
✓ A493						
✓ A494	H-20L 3/25/97 Doneg + D-1.2					
• A495	ash	F		Ø		
• A496	ash + sludge	F		250	156	5/6/97
• A497						
✓ A498	sludge + liquid	1/2		110		
• A499	ash + sludge	F		400	157	
• A500						
• A501	ash + sludge	F		400	157	5/6/97
• A502						
• A503	ash	F		8	158	5/6/97
✓ A504	ash	F		220		
• A505						
✓ A506	ash H-20L 4/18/97 Doneg + D-1.2	F		Ø		
• A507						
A508	ash	3/4		110	159	5/6/97
A509	no drum					
• A510						

DRUM #	Descr. of Contents	Vol	Comments	OVA	Samp #	Date
✓A541						
✓A542	ash + sludge	F		80	165	5/6/97
✓A543						
✓A544						
✓A545	ash + sludge	F		460	166	5/6/97
✓A546						
✓A547	HCISC 4/95 0006 + 0002					
✓A548						
✓A549						
✓A550						
✓A551	ash	F	burner ash + slag from 11/28	10		
✓A552						
✓A553						
✓A554						
✓A555						
✓A556						
✓A557						
✓A558	ash	F		150	167	5/6/97
✓A559	ash	F		0		
✓A560						
✓A561						
✓A562						
✓A563						
✓A564	ash	F		0	168	5/6/97
✓A565						
✓A566						
✓A567						
✓A568						
✓A569						
✓A570						



DRUM #	Descr. of Contents	Vol	Comments	OVA	Samp #	Date
X A601						
X A602						
X A603						
SX A604	liquid	F		950	170	5/6/97
X A605						
X A606						
X A607						
X A608						
X A609	ASN	F	2000-10-8028 4-9-95 sample ignition date Burner Ash	2006 2008 2006 2008	3	176
X A610						5/6/97
X A611						
X A612						
X A613	liquid + sludge	F			10	
X A614						
X A615						
X A616						
X A617						
X A618						
X A619						
X A620						
X A621						
X A622						
X A623	ASN	F	sample date 4/6/95 Burner Ash	2006 2008		169
X A624			sample date 4/8/95 Burner Ash	2006 2008		5/6/97
X A625						
X A626						
X A627						
X A628						
X A629			sample date Burner Ash	2006 2008		
X A630						

DRUM #	Descr. of Contents	Vol	Comments	OVA	<sup>AA/5</sup> Samp #	Date	
B001							
X B002							
X B003							
X B004							
X B005							
X B006							
B007							
X B008	brown dust	F		340	193	5/7/97	
X B009							
B010							
B011	brown dust	F		200			
B012							
X B013							
X B014							
X B015	brown dust	3/4		100			
X B016							
X B017	brown dust	F		2000			
X B018							
X B019	brown dust	F		70			
B020							
B021							
X B022	brown dust	F		100			
X B023							
X B024	brown dust	F		5000	194	5/7/97	
B025							
X B026	brown dust	F		0			
B027							
B028	liquid	F		0			
B029	brown dust	F		10			
B030							

DRUM #	Descr. of Contents	Vol	Comments	OVA	Samp #	Date
X BC61						
BC62						
BC63						
BC64						
BC65						
BC66						
BC67						
BC68						
BC69	brown dust	F		1		
BC70						
BC71						
BC72						
BC73						
BC74						
BC75						
BC76						
BC77						
BC78						
BC79						
BC80						
BC81	brown dust	F		2		
X BC82						
BC83	brown dust	F		2	191	5/1/97
BC84						
BC85	brown dust	F		70		
BC86	brown dust	F		3		
X BC87						
X BC88						
BC89						
BC90						

DRUM #	Descr. of Contents	Vol	Comments	OVA	Samp #	Date
X B121						
B122	brown dust	F		10		
B123						
X B124	brown dust	F		15	196	5/1/97
X B125						
B126	brown dust	1/2		3		
X B127	brown dust	1/2		4		
X B128						
X B129						
X B130						
B131						
B132						
B133						
B134						
B135						
X B136						
X B137						
B138	brown dust	F		30		
X B139	brown dust	F		200		
X B140						
B141						
B142						
X B143						
X B144						
X B145						
X B146						
X B147						
B148	brown dust	F		0		
B149						
X B150						

collected  
12/16/97

R. V. Hopkins Drum Summary

Davenport, Ia.

TDF 507-9704-001

PAN: 0494RVSFXX

DRUM #	Descr. of Contents	Vol	Comments	OVA	Samp #	Date
X D001						
X D002	baghouse dust brown	F		7	194	5/7/97
X D003		3/4		0		
X D004						
X D005						
X D006						
X D007						
X D008						
X D009						
X D010	brown ash dust	F		120		
X D011	brown ash dust	F		4		
X D012						
X D013	brown <del>ash</del> dust	3/4		0		
X D014						
X D015						
X D016						
X D017	brown dust	F		2		
X D018						
X D019	brown dust	F		0		
X D020						
X D021						
X D022						
X D023	<del>bags</del> ash-black	F		12		
X D024						
X D025						
X D026						
X D027						
X D028						
X D029						
X D030						

recycled paper

recycled paper

ecology and environment

ecology and environment

Inspected  
2/16/97

R. V. Hopkins Drum Summary

Davenport, Ia.

TDD: SO7-9704-001

PAN: 0494RVSFXX

DRUM #	Descr. of Contents	Vol	Comments	OVA	Samp #	Date
D031						
D032						
X D033						
X D034	brown dust	F		5		
X D035						
X D036	brown dust	F		3		
X D037						
X D038	brown dust	F		70	189	5/7/97
X D039	brown dust	F		2		
X D040						
X D041						
X D042						
X D043						
X D044						
X D045						
X D046						
X D047						
X D048						
X D049	brown dust	F		2		
X D050						
X D051	brown dust	F		2000		
X D052						
X D053						
X D054	brown dust	F		20		
X D055						
X D056						
X D057						
X D058	brown dust	F		1		
X D059						
X D060						

DRUM #	Descr. of Contents	Vol	Comments	OVA	Samp #	Date
X D091						
X D092	brown dust	F		40		
D093						
X D094	brown dust	F		2		
X D095						
D096						
D097	brown dust	F		4		
X D098						
X D099	brown dust	F		1	185	5/7/71
X D100						
X D101						
X D102						
D103						
X D104	ash + paint	1/2		5		
X D105						
X D106						
X D107	ash	F		0		
D108						
X D109						
X D110						
D111						
D112						
D113	brown dust	F		0		
X D114						
D115	brown dust	F		7		
D116						
X D117						
D118						
D119						
X D120						

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R. V. Hopkins Drum Summary

Davenport, Ia.

TDD: SO7-9704-001

PAN: 0494RVSFXX

DRUM #	Descr. of Contents	Vol	Comments	OVA	Samp #	Date
X 0151						
X 0152						
X 0153						
X 0154						
X 0155						
X 0156						
X 0157						
X 0158						
X 0159	brown dust	F		5		
X 0160						
X 0161						
X 0162						
X 0163	brown dust	F		150		
X 0164						
X 0165	brown dust	F		Ø	188	5/7/97
X 0166						
X 0167						
X 0168						
X 0169						
X 0170	brown dust	F		1		
X 0171						
X 0172						
X 0173						
X 0174	brown dust	F		4		
X 0175						
0176						
0177						
178						
0179						
0180	brown dust	F		2	187	5/7/97



R. V. Hopkins

Davenport, Iowa

TDD: S07-9711-007

PAN: 0687RVSFXX

Drum #	Samp #	Contents	Vol.	Comments	OVA	Date
AKX5-001		Gray Sand	1/2	No Haz Waste label	70	12/16/97
	002	Gray/Brown solid	3/4	No Haz Waste label	210	12/16/97
	003	Gray/Brown solid	F	2-14-96 start on site D006 12/16/97 D005	210	12/16/97
	004	Gray/Brown solid	F	2-14-95 Burner Ash D006 D008	210	12/16/97
	005	Gray/Brown solid	F	3-16-95 start on site D006 Burner Ash D005	10	
	006	Gray/Black	F	3-28-95 D006 Burner Ash D008	30	
	007	Gray/Black	F	4-2-95 D006 Burner Ash D008	210	
	008	Gray	F	Burner Ash D006 D008	210	
	009	Gray/Brown	F	5-18-95 D006 Burner Ash D008	210	
	010	Gray	7/8	? Date unrecordable D006 Burner Ash D008	12	
	011	Gray	7/8	? Date unrecordable D006 Burner Ash D008	550	
	012	Gray chunks	7/8	Date unrecordable D006 Burner Ash D008	210	
	013	Gray	F	Date unrecordable D006 Burner Ash D008	210	
	014	Gray/Brown	7/8	Weight D006 Burner Ash D008	210	
	015	Gray	3/4	3-7-95 Burner Ash	6	
	016	Gray/Black	7/8	3-21-95 Burner Ash	110	
	017	Gray/Reddish	7/8	No date D006 D008 Burner Ash	210	
	018	Gray/Red	3/4	7-18-95 D006 Burner Ash D008	210	
	019	Gray	F	Haz Waste Label No Info completed	210	
	020	Gray	F	Haz Waste Label No Info completed	210	
	021	Gray	F	4/2/95 D006 Burner Ash D008	210	
	022	Gray	F	7-18-95 D006 Burner Ash D008	210	
	023	Gray	7/8	3-22-95 D006 Burner Ash D008	15	
	024	Gray	7/8	7-17-95 D006 Burner Ash D008	4	
	025	Gray	F	2-21-95 Burner Ash	210	
	026	Gray	3/4	No date D006 Burner Ash D008	210	
	027	Dark Gray	F	10/19/96 Ash	210	
	028	Black/Red Gray	7/8	No date D006 Burner Ash D008	600	
	029	Gray	F	No date D006 Burner Ash D008	15	

**ATTACHMENT 5**

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**Photographic Record**



SITE: R. V. Hopkins Inc. Davenport, IA  
 TDD: S07-9711-007 PAN: 0687RVSEXX  
 DATE: 12/16/97 TIME: 800  
 TAKEN BY: E. Nold DIR: south  
 ROLL#: 1 FRAME: 1  
 SUBJECT: Law enforcement vehicles in front of facility

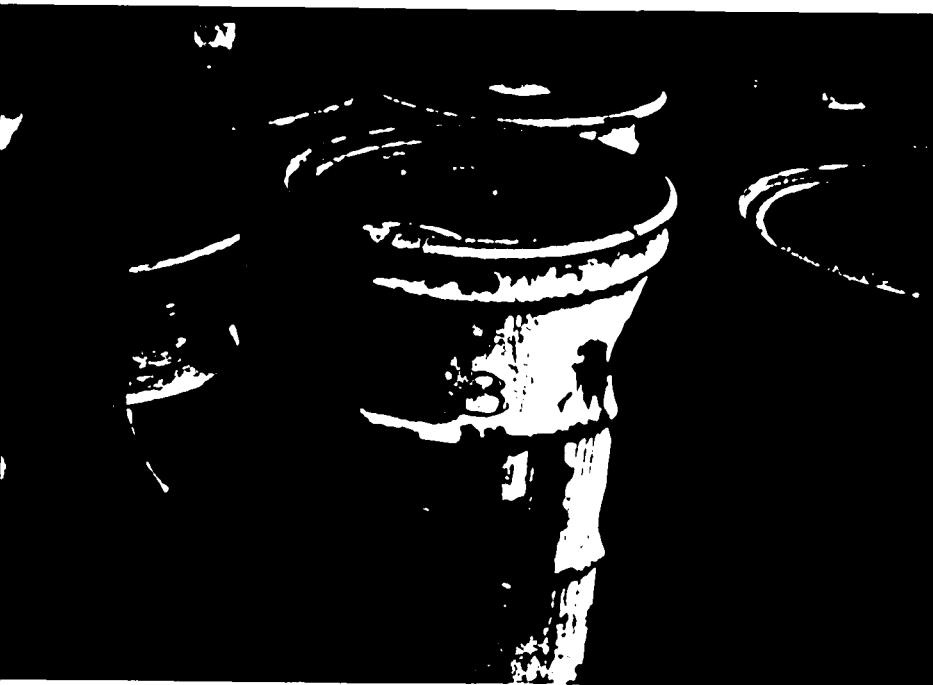


SITE: R. V. Hopkins Inc. Davenport, IA  
 TDD: S07-9711-007 PAN: 0687RVSEXX  
 DATE: 12/16/97 TIME: 815  
 TAKEN BY: E. Nold DIR: north  
 ROLL#: 1 FRAME: 2  
 SUBJECT: Area A, staged drums of waste



SITE R V Hopkins Inc Davenport, IA  
 TDD: S07-9711-007 PAN 0687RVSEXX  
 DATE: 12/16/97 TIME: 1120  
 TAKEN BY: R Claytor DIR north northwest  
 ROLL # 1 FRAME 3  
 SUBJECT Area D, Staged drums of waste

SITE R V Hopkins Inc Davenport, IA  
 TDD: S07-9711-007 PAN 0687RVSEXX  
 DATE: 12/16/97 TIME: 1122  
 TAKEN BY: R Claytor DIR southwest  
 ROLL # 1 FRAME 4  
 SUBJECT Area D, Staged drums of waste



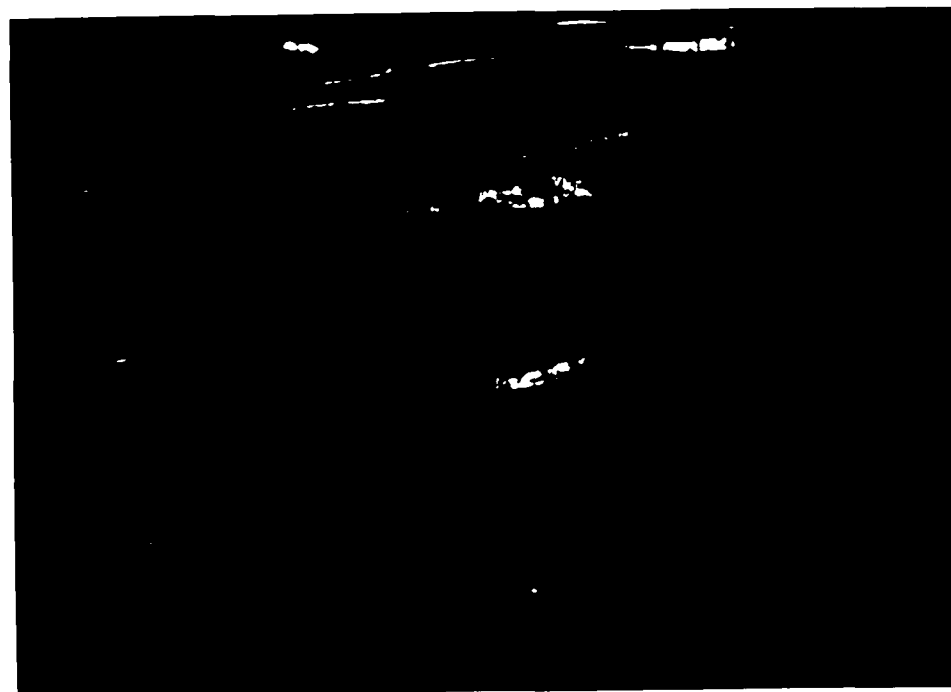
SITE R V Hopkins Inc Davenport, IA  
 ID# S07-9711-007 PAN 0687RVSEXX  
 DATE 12-16-97 TIME 1203  
 TAKEN BY F Niemann DIR east  
 ROLL# 1 FRAME 7  
 SUBJECT Drum A033 containing RCRA hazardous waste



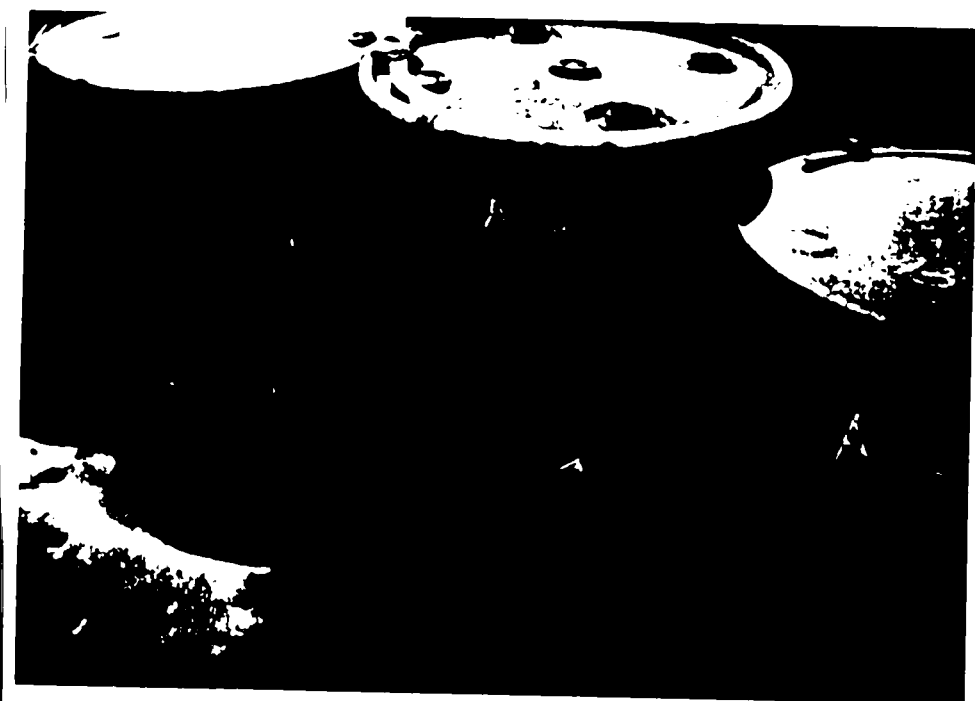
SITE R V Hopkins Inc Davenport, IA  
 ID# S07-9711-007 PAN 0687RVSEXX  
 DATE 12-16-97 TIME 1205  
 TAKEN BY F Niemann DIR northeast  
 ROLL# 1 FRAME 8  
 SUBJECT Drum A050 containing RCRA hazardous waste



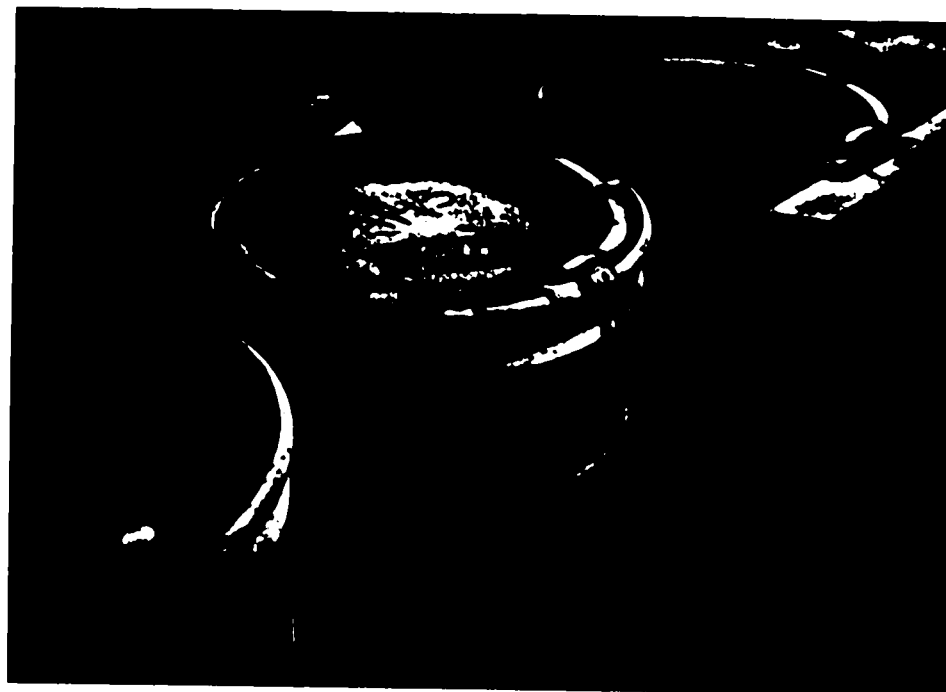
SITE R V Hopkins Inc Davenport, IA  
 IDD S07-9711-007 PAN 0687RVSEXX  
 DATE 12 16 97 TIME 1206  
 TAKEN BY F Niermann DIR east  
 ROLL # 1 FRAME 9  
 SUBJECT Drum A173 containing RCRA hazardous waste



SITE R V Hopkins Inc Davenport, IA  
 IDD S07-9711-007 PAN 0687RVSEXX  
 DATE 12 16 97 TIME 1208  
 TAKEN BY F Niermann DIR east  
 ROLL # 1 FRAME 10  
 SUBJECT Drum A186 containing RCRA hazardous waste



SITE: R V Hopkins Inc Davenport, IA  
 IDD: S07-9711-007 PAN: 0687RVSEXX  
 DATE: 12/16/97 TIME: 1209  
 TAKEN BY: F Niermann DIR: southwest  
 ROLL #: 1 FRAME: 11  
 SUBJECT: Drum A337 containing RCRA hazardous waste



SITE: R V Hopkins Inc Davenport, IA  
 IDD: S07-9711-007 PAN: 0687RVSEXX  
 DATE: 12/16/97 TIME: 1211  
 TAKEN BY: F Niermann DIR: southeast  
 ROLL #: 1 FRAME: 12  
 SUBJECT: Drum A143 containing RCRA hazardous waste



SITE R V Hopkins Inc Davenport, IA  
 ID# S07-9711-007 PAN 0687RVSEXX  
 DATE 12-16-97 TIME 1213  
 TAKEN BY E Niemann DIR east  
 ROLL# 1 FRAME 13  
 SUBJECT Drum A165 containing RCRA hazardous waste



SITE R V Hopkins Inc Davenport, IA  
 ID# S07-9711-007 PAN 0687RVSEXX  
 DATE 12-16-97 TIME 1214  
 TAKEN BY E Niemann DIR west  
 ROLL# 1 FRAME 14  
 SUBJECT Drum A252 containing RCRA hazardous waste

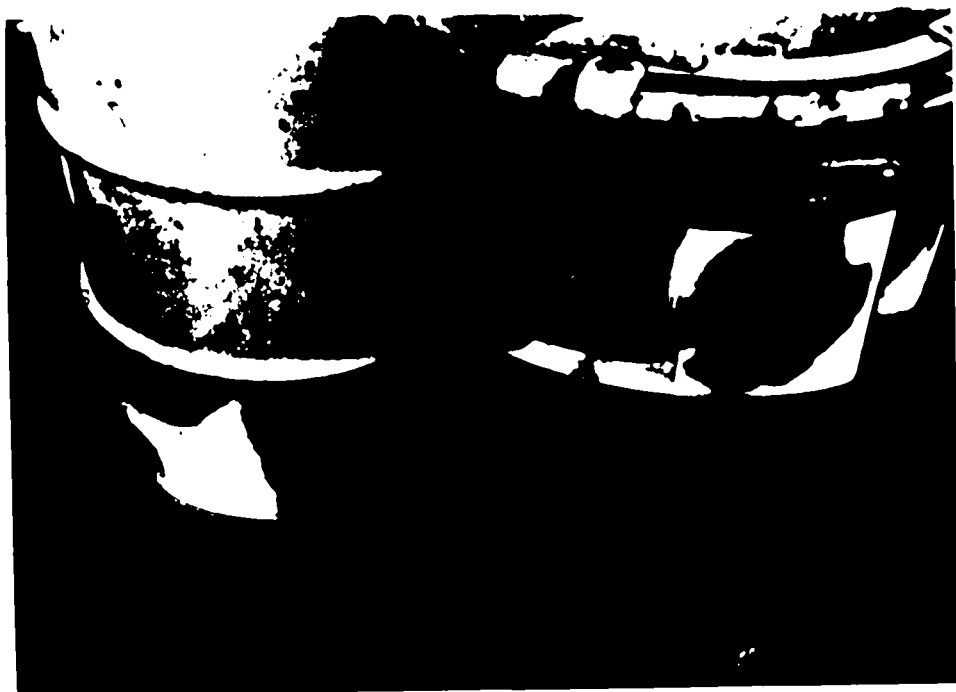




SITE: R V Hopkins Inc Davenport, IA  
TDD: S07-9711-007 PAN: 0687RVSEXX  
DATE: 12 16 97 TIME: 1216  
TAKEN BY: F Niermann DIR: west  
ROLL # 1 FRAME: 15  
SUBJECT: Drum A385 containing RCRA hazardous waste



SITE: R V Hopkins Inc Davenport, IA  
TDD: S07-9711-007 PAN: 0687RVSEXX  
DATE: 12 16 97 TIME: 1217  
TAKEN BY: F Niermann DIR: southwest  
ROLL # 1 FRAME: 16  
SUBJECT: Drum A364 containing RCRA hazardous waste



SITE R V Hopkins Inc Davenport, IA  
 IDD S07-9711-007 PAN 0687RVSEXX  
 DATE 12-16-97 TIME 1220  
 TAKEN BY F Niemann DIR northeast  
 ROLL# 1 FRAME 18  
 SUBJECT Drum A564 containing RCRA hazardous waste

SITE R V Hopkins Inc Davenport, IA  
 IDD S07-9711-007 PAN 0687RVSEXX  
 DATE 12-16-97 TIME 1231  
 TAKEN BY F Niemann DIR southwest  
 ROLL# 1 FRAME 20  
 SUBJECT Drum A462 containing RCRA hazardous waste



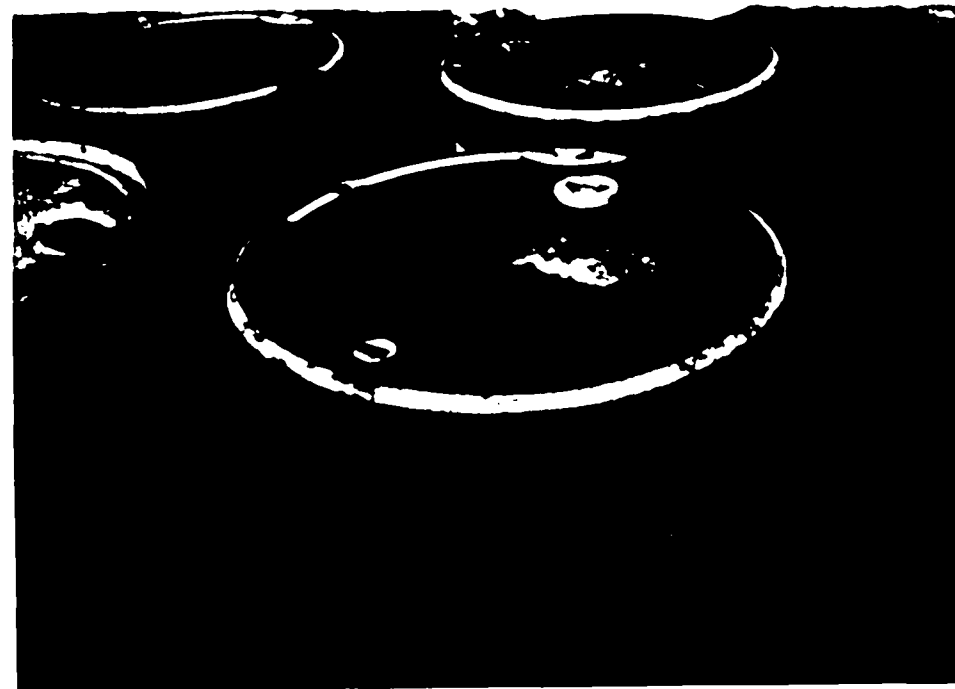
SITE: R V Hopkins Inc. Davenport, IA  
 IDD: S07-9711-007 PAN: 0687RVSEFX  
 DATE: 12-16-97 TIME: 1232  
 TAKEN BY: F. Niermann DIR: southwest  
 ROLL #: 1 FRAME: 21  
 SUBJECT: Drum A604 containing RCRA hazardous waste



SITE: R V Hopkins Inc. Davenport, IA  
 IDD: S07-9711-007 PAN: 0687RVSEFX  
 DATE: 12-16-97 TIME: 1233  
 TAKEN BY: F. Niermann DIR: northeast  
 ROLL #: 1 FRAME: 22  
 SUBJECT: ~~Drum A609 containing RCRA hazardous waste~~



SITE R V Hopkins Inc Davenport, IA  
 IDD S07-9711-007 PAN 0687RVSEXX  
 DATE 12-16-97 TIME 1330  
 TAKEN BY F Niermann DIR west  
 ROLL# 1 FRAME 23  
 SUBJECT Drum A623 containing RCRA hazardous waste



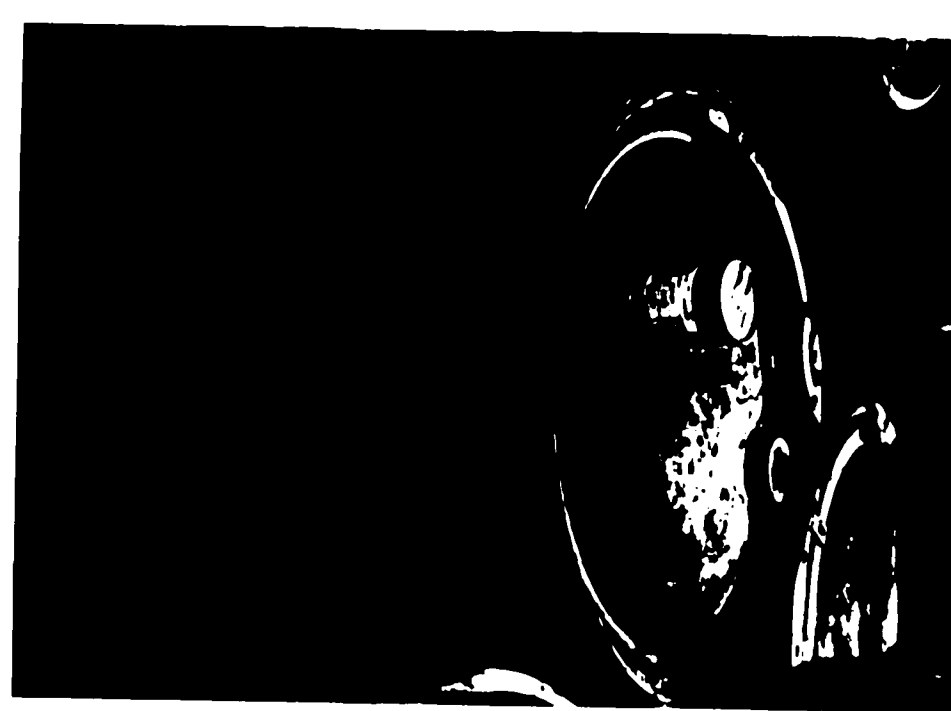
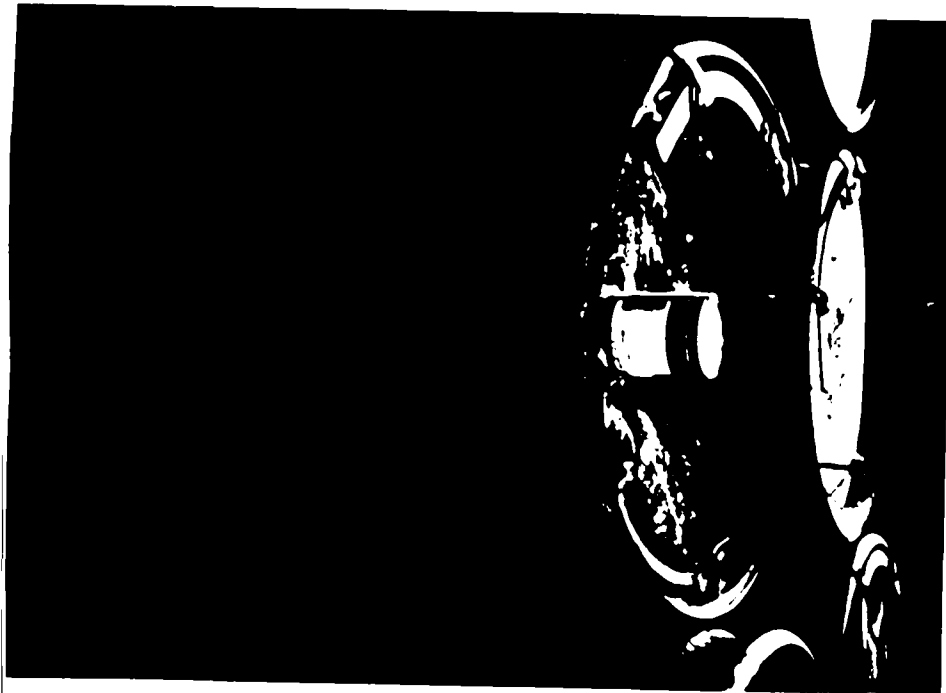
SITE R V Hopkins Inc Davenport, IA  
 IDD S07-9711-007 PAN 0687RVSEXX  
 DATE 12-16-97 TIME 1340  
 TAKEN BY F Niermann DIR north  
 ROLL# 1 FRAME 24  
 SUBJECT Drum A430 containing RCRA hazardous waste



SITE R V Hopkins Inc Davenport, IA  
 IDD S07-9711-007 PAN 0687RVSEXX  
 DATE 12-16-97 TIME 1342  
 TAKEN BY F Niemann DIR northeast  
 ROLL # 1 FRAME 25  
 SUBJECT Drum A071 containing RCRA hazardous waste

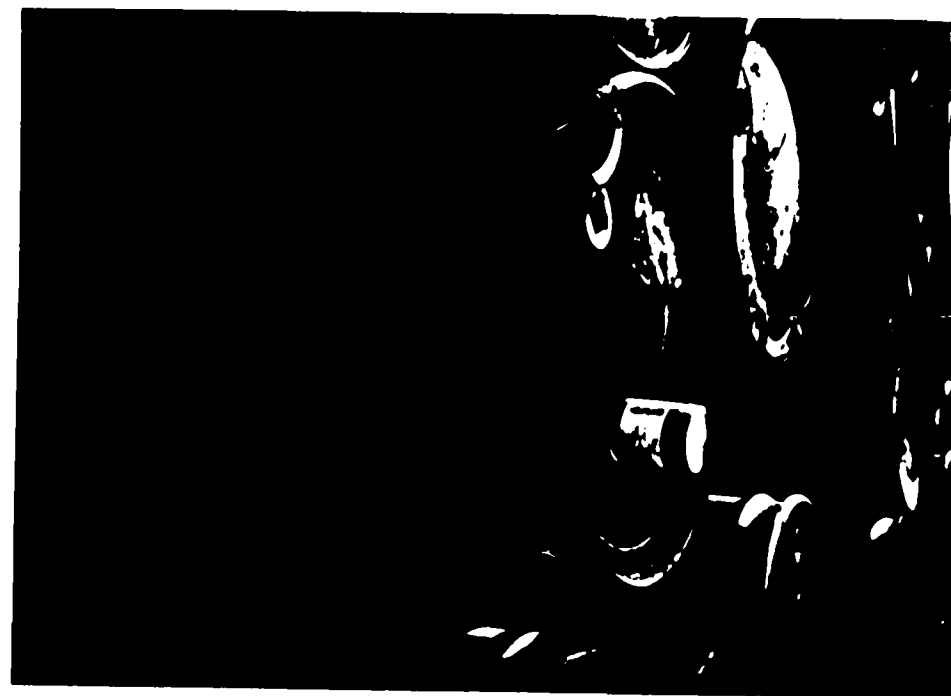


SITE R V Hopkins Inc Davenport, IA  
 IDD S07-9711-007 PAN 0687RVSEXX  
 DATE 12-16-97 TIME 1443  
 TAKEN BY O Onyango DIR west  
 ROLL # 1 FRAME 26  
 SUBJECT Drum AKXX5001 and sample



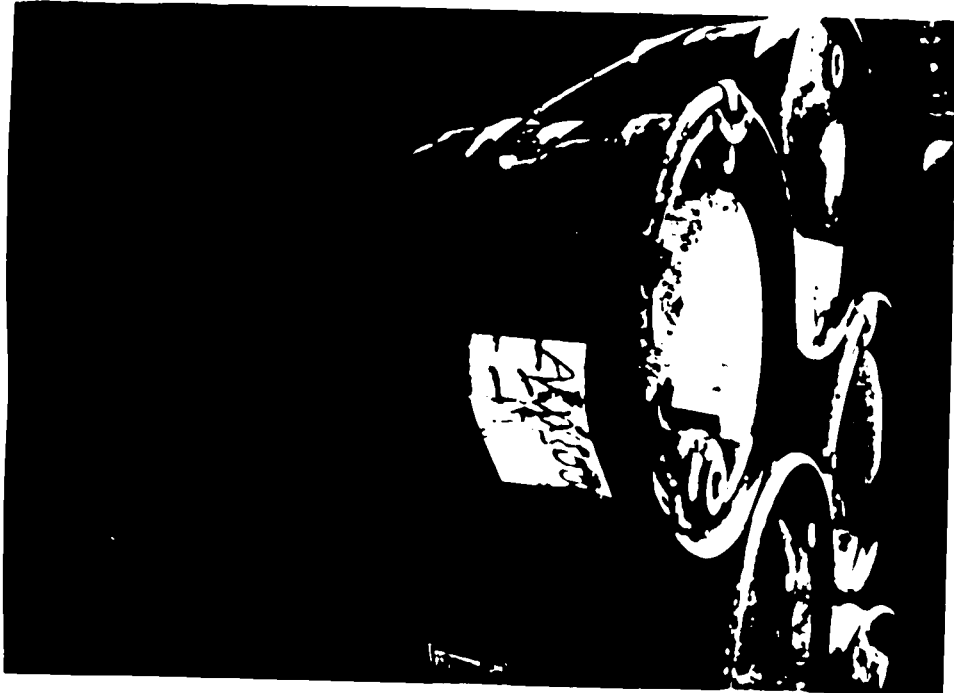
SITE R V Hopkins Inc Davenport, IA  
IDD S07-9711-007 PAN 0687RVSEXX  
DATE 12-16-97 TIME 1445  
TAKEN BY O Onyango DIR west  
ROLL # 1 FRAME 27  
SUBJECT Drum AKXX5002 and sample

SITE R V Hopkins Inc Davenport, IA  
IDD S07-9711-007 PAN 0687RVSEXX  
DATE 12-16-97 TIME 1446  
TAKEN BY O Onyango DIR west  
ROLL # 1 FRAME 28  
SUBJECT Drum AKXX5003 and sample

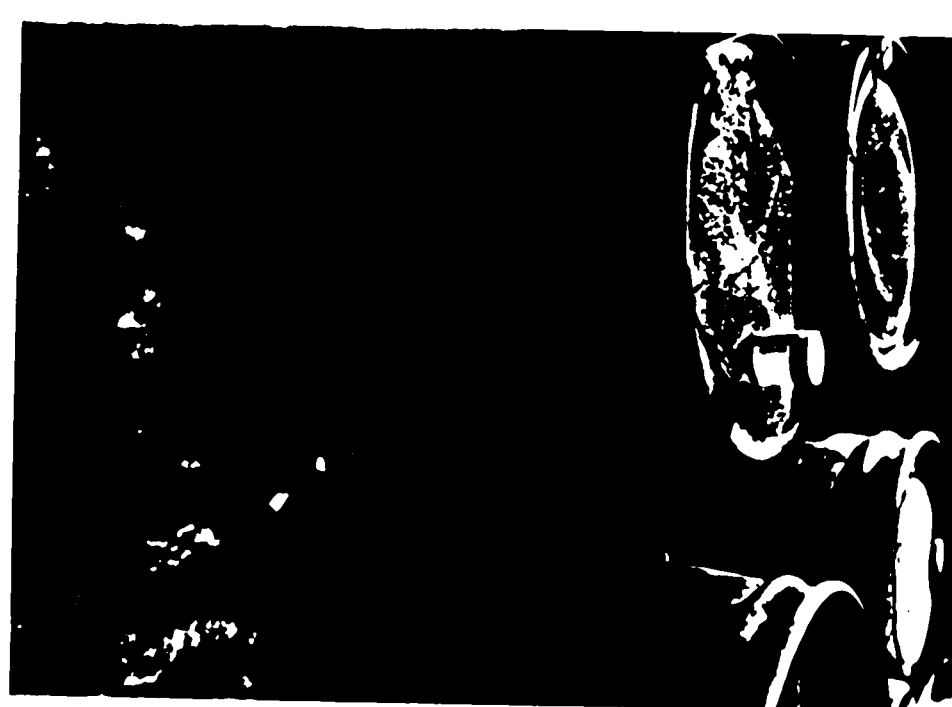


SITE R V Hopkins Inc Davenport, IA  
 IDD S07-9711-007 PAN 0687RVSEFX  
 DATE 12/16/97 TIME 1447  
 TAKEN BY O Onyango DIR northwest  
 ROLL # 1 FRAME 29  
 SUBJECT Drum AKXX5004 and sample

SITE R V Hopkins Inc Davenport, IA  
 IDD S07-9711-007 PAN 0687RVSEFX  
 DATE 12/16/97 TIME 1447  
 TAKEN BY O Onyango DIR west  
 ROLL # 1 FRAME 30  
 SUBJECT Drum AKXX5005 and sample collected  
 0

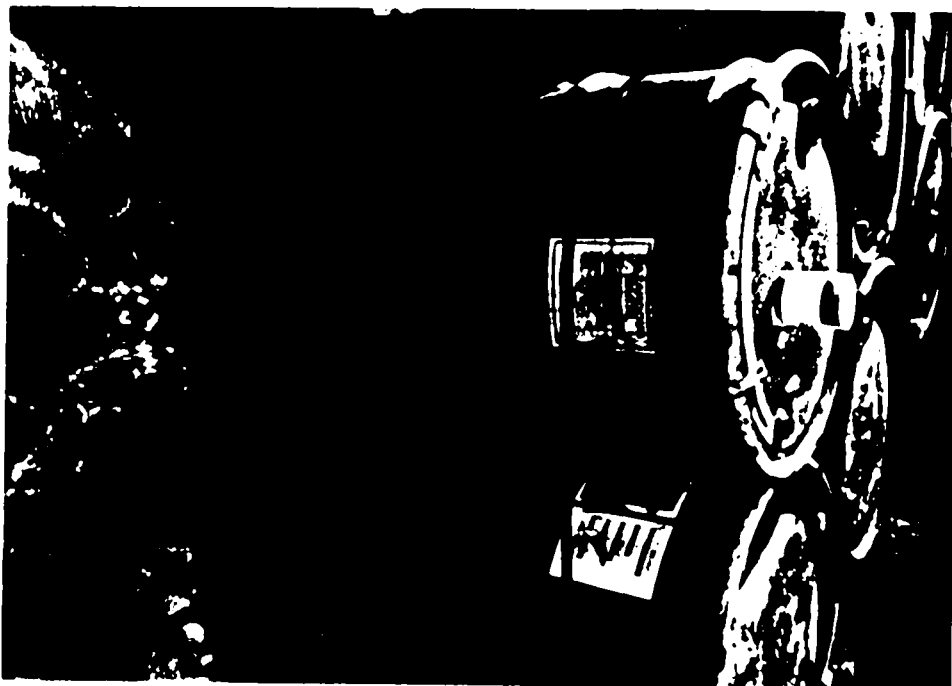


SITE R V Hopkins Inc Davenport, IA  
 TDD S07-9711-007 PAN 0687RVSEXX  
 DATE 12/16/97 TIME 1448  
 TAKEN BY O Onyango DIR west  
 ROLL# 1 FRAME 31  
 SUBJECT Drum AKXX5006 and sample collected from it

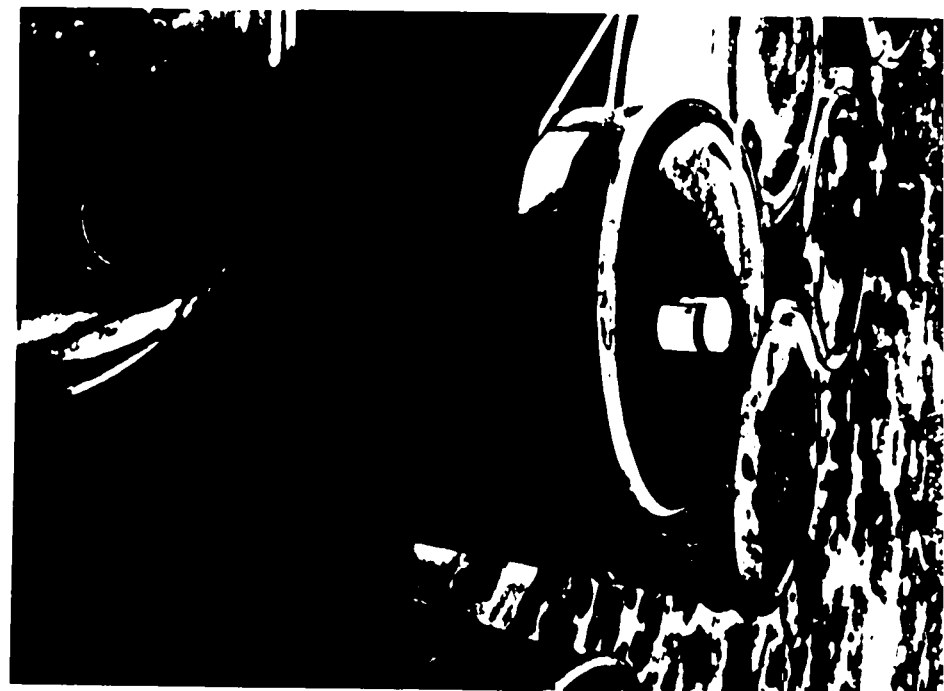


SITE R V Hopkins Inc Davenport, IA  
 TDD S07-9711-007 PAN 0687RVSEXX  
 DATE 12/16/97 TIME 1448  
 TAKEN BY O Onyango DIR west  
 ROLL# 1 FRAME 32  
 SUBJECT Drum AKXX007 and the sample collected from it

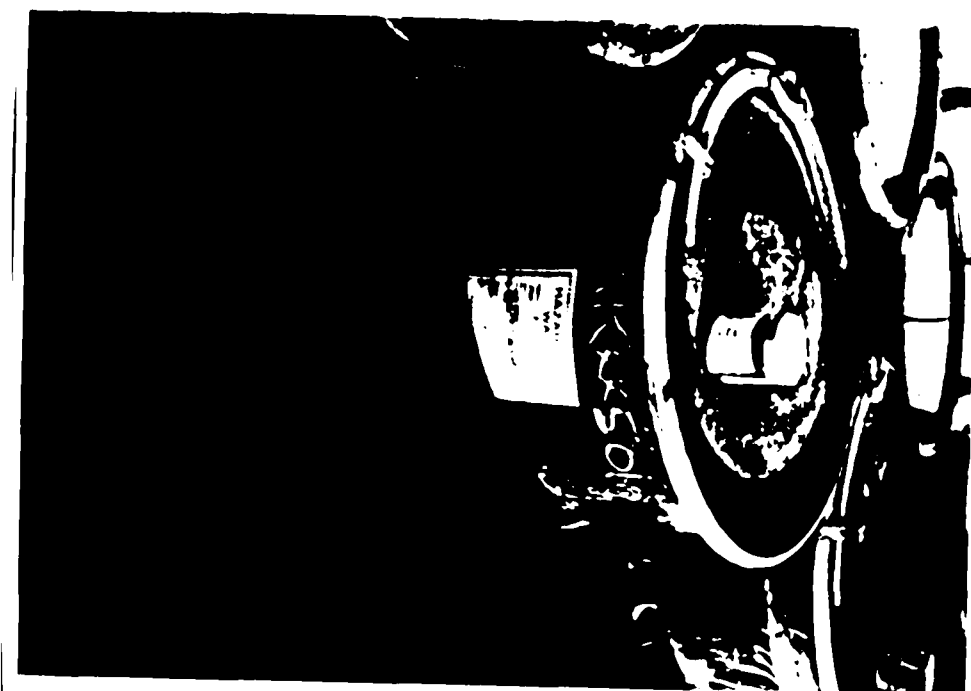




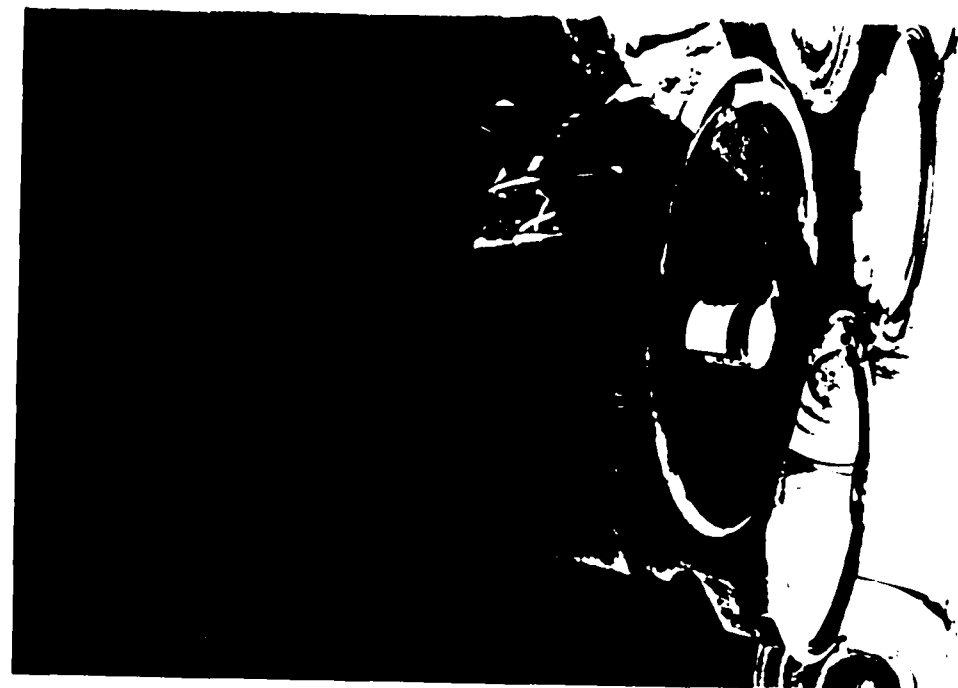
SITE: R V Hopkins Inc Davenport, IA  
 TDD: S07-9711-007 PAN: 0687RVSEXX  
 DATE: 12 16 97 TIME: 1449  
 TAKEN BY: O Onyango DIR: west  
 ROLL # 1 FRAME: 33  
 SUBJECT: Drum AKXX5008 and sample collected from it



SITE: R V Hopkins Inc Davenport, IA  
 TDD: S07-9711-007 PAN: 0687RVSEXX  
 DATE: 12 16 97 TIME: 1450  
 TAKEN BY: O Onyango DIR: east  
 ROLL # 1 FRAME: 34  
 SUBJECT: Drum AKXX5009 and sample collected from it



SITE R/V Hopkins Inc Davenport, IA  
 ID# S07 9711 007 PAN 0687RVSEXX  
 DATE 12-16-97 TIME 1451  
 TAKEN BY O. Onyango DIR southeast  
 ROLL# 1 FRAME 35  
 SUBJECT Drum AKXX5010 and sample collected from it



SITE R/V Hopkins Inc Davenport, IA  
 ID# S07 9711 007 PAN 0687RVSEXX  
 DATE 12-16-97 TIME 1451  
 TAKEN BY O. Onyango DIR northeast  
 ROLL# 1 FRAME 36  
 SUBJECT Drum AKXX5011 and sample collected from it



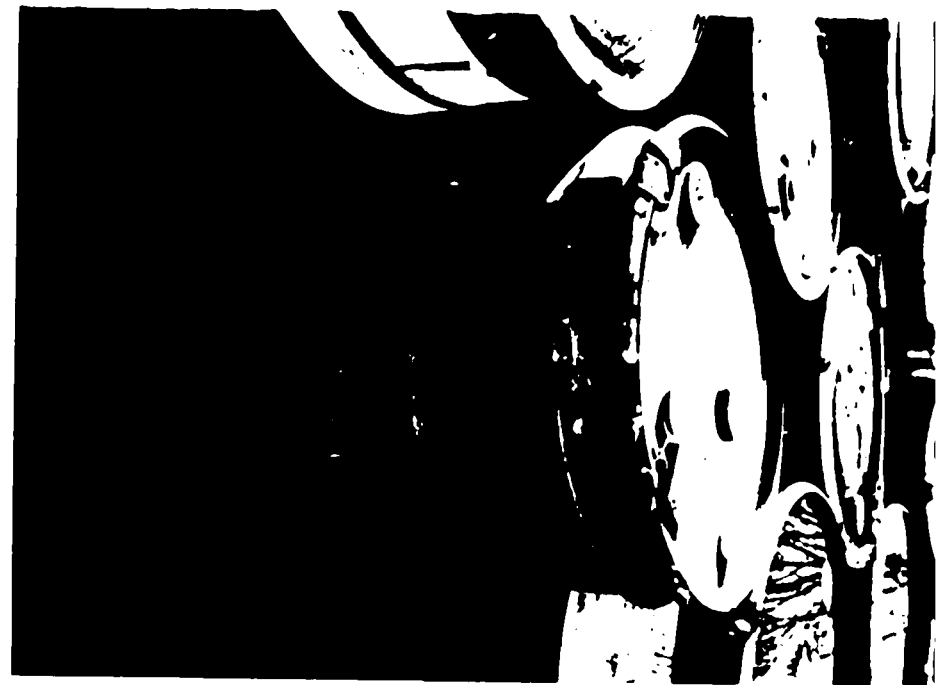
SITE R V Hopkins Inc Davenport, IA  
 IDID S07 9711 007 PAN 0687RVSEXX  
 DATE 12 16 97 TIME 1454  
 TAKEN BY O Onyango DIR east  
 ROLL# 2 FRAME 1  
 SUBJECT Drum AKXX012 and sample collected fro



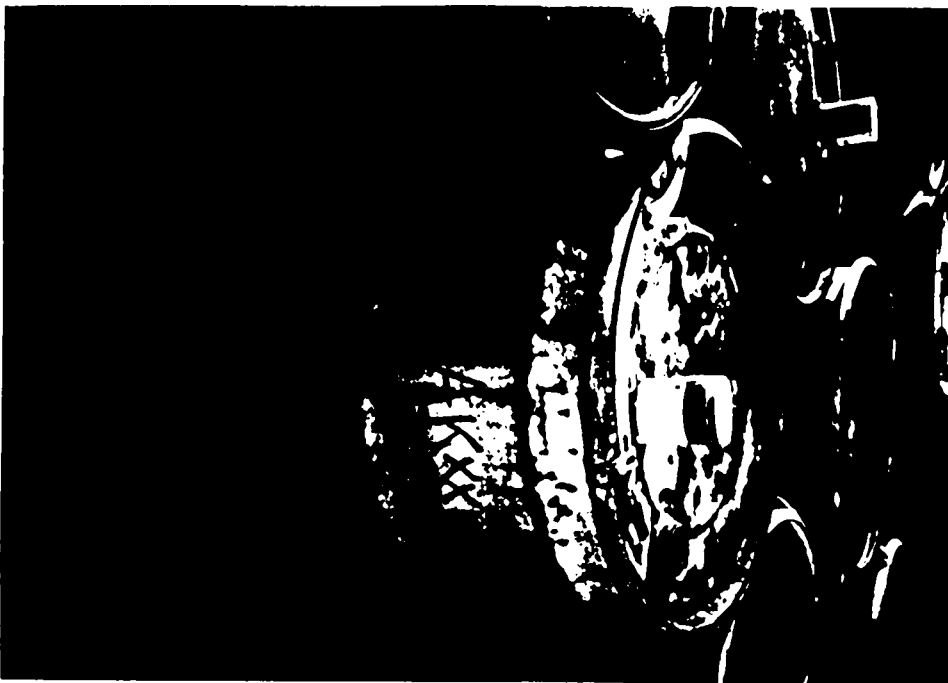
SITE R V Hopkins Inc Davenport, IA  
 IDID S07 9711 007 PAN 0687RVSEXX  
 DATE 12 16 97 TIME 1456  
 TAKEN BY O Onyango DIR west  
 ROLL# 2 FRAME 2  
 SUBJECT Drum AKXX013 and the sample collected



SITE R V Hopkins Inc Davenport, IA  
 LDD S07 9711-007 PAN 0687RVS1XX  
 DATE 12-16-97 TIME 1457  
 TAKEN BY O Onyango DIR west  
 ROLL# 2 FRAME 3  
 SUBJECT Drum AKXXS014 and sample collected from it



SITE R V Hopkins Inc Davenport, IA  
 LDD S07 9711-007 PAN 0687RVS1XX  
 DATE 12-16-97 TIME 1458  
 TAKEN BY O Onyango DIR west  
 ROLL# 2 FRAME 4  
 SUBJECT Drum AKXXS015 and the sample collected from it



SITE R V Hopkins Inc Davenport, IA  
 IDD S07-9711-007 PAN 0687RVSEXX  
 DATE 12-16-97 TIME 1459  
 TAKEN BY O Onyango DIR west  
 ROLL # 2 FRAME 5  
 SUBJECT Drum AKXX5016 and the sample collected from it



SITE R V Hopkins Inc Davenport, IA  
 IDD S07-9711-007 PAN 0687RVSEXX  
 DATE 12-16-97 TIME 1459  
 TAKEN BY O Onyango DIR west  
 ROLL # 2 FRAME 6  
 SUBJECT Drum AKXX5017 and the sample collected



SITE R V Hopkins Inc Davenport, IA  
 IDD S07-9711-007 PAN 0687RVSEXX  
 DATE 12-16-97 TIME 1459  
 TAKEN BY O. Onyango DIR west  
 ROLL# 2 FRAME 7  
 SUBJECT Drum AKXXS018 and the sample collected



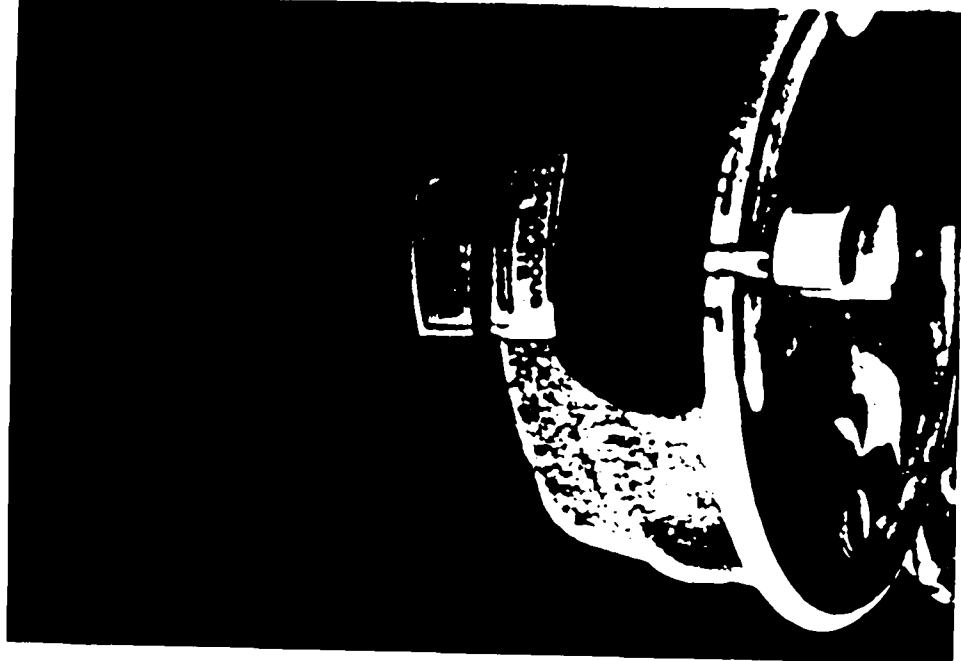
SITE R V Hopkins Inc Davenport, IA  
 IDD S07-9711-007 PAN 0687RVSEXX  
 DATE 12-16-97 TIME 1500  
 TAKEN BY O. Onyango DIR west  
 ROLL# 2 FRAME 8  
 SUBJECT Drum AKXXS019 and the sample collected



SITE R V Hopkins Inc Davenport, IA  
 IDD S07-9711-007 PAN 0687RVSEXX  
 DATE 12-16-97 TIME 1500  
 TAKEN BY O Onyango DIR west  
 ROLL# 2 FRAME 9  
 SUBJECT Drum AKXX5020 and samples collected from it



SITE R V Hopkins Inc Davenport, IA  
 IDD S07-9711-007 PAN 0687RVSEXX  
 DATE 12-16-97 TIME 1502  
 TAKEN BY O Onyango DIR northeast  
 ROLL# 2 FRAME 10  
 SUBJECT Drum AKXS021 and the sample collected from it



SITE R V Hopkins Inc Davenport, IA  
 I/DD S07-9711-007 PAN 0687RVSEXX  
 DATE 12-16-97 TIME 1503  
 TAKEN BY O Onyango DIR east  
 ROLL# 2 FRAME 11  
 SUBJECT Drum AKXX5022 and the sample collected from it

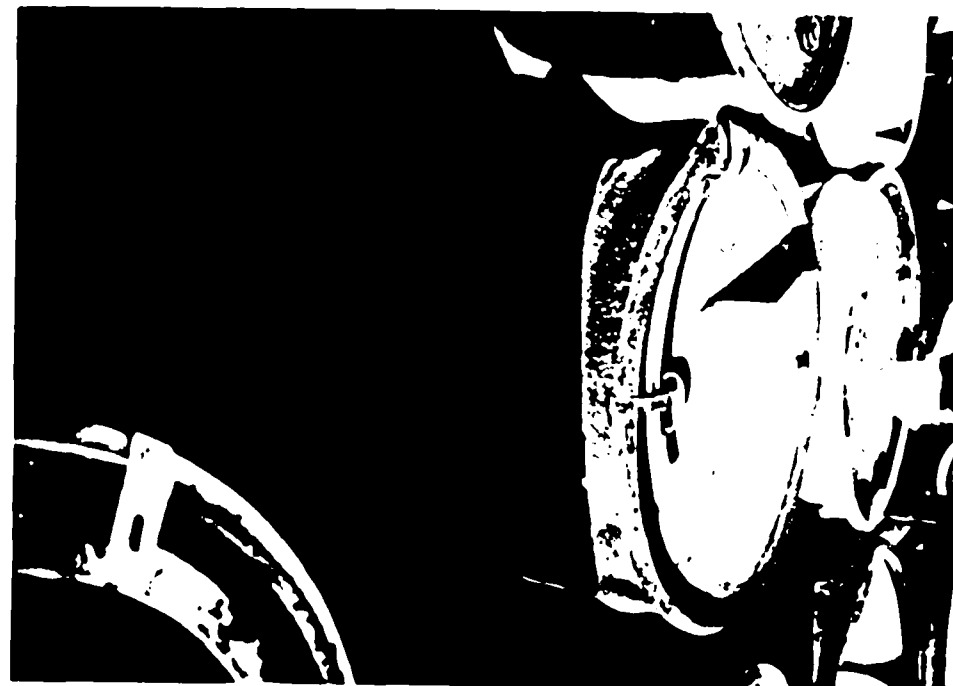


SITE R V Hopkins Inc Davenport, IA  
 I/DD S07-9711-007 PAN 0687RVSEXX  
 DATE 12-16-97 TIME 1503  
 TAKEN BY O Onyango DIR east  
 ROLL# 2 FRAME 12  
 SUBJECT Drum AKXX5023 and the sample collected

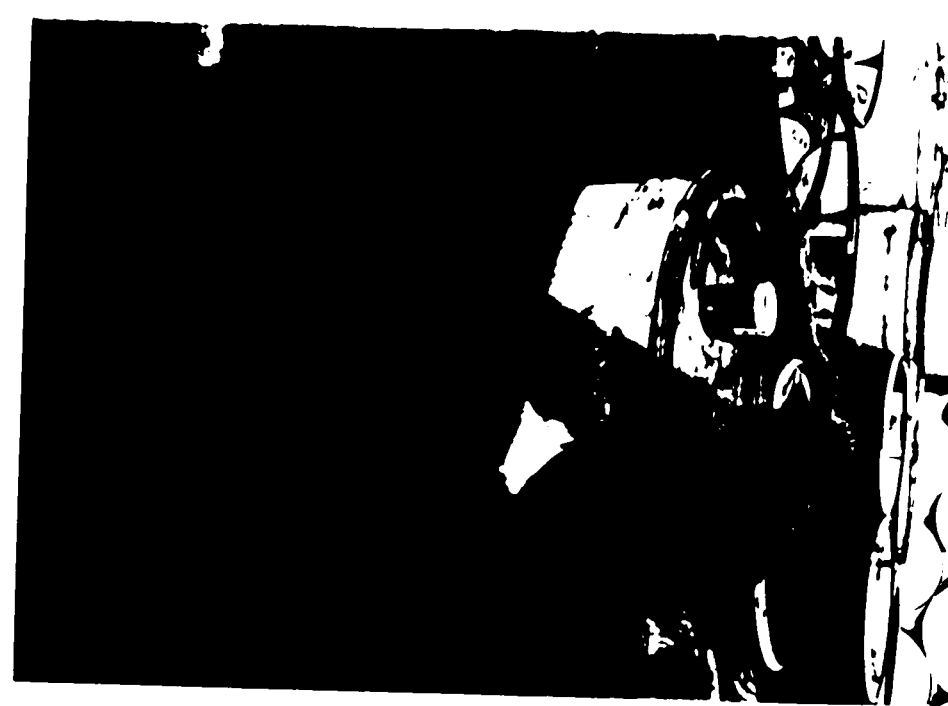




SITE R V Hopkins Inc Davenport, IA  
 ID# S07 9711 007 PAN 0687RVSEXX  
 DATE 12 16 97 TIME 1504  
 TAKEN BY O Onyango DIR northeast  
 ROLL# 2 FRAME 13  
 SUBJECT Drum AKX5024 and the sample collected f



SITE R V Hopkins Inc Davenport, IA  
 ID# S07 9711 007 PAN 0687RVSEXX  
 DATE 12 16 97 TIME 1505  
 TAKEN BY O Onyango DIR east  
 ROLL# 2 FRAME 14  
 SUBJECT Drum AKXX5025 and the sample collected



SITE R V Hopkins Inc Davenport, IA  
 I/DD S07-9711-007 PAN 0687RVSEXX  
 DATE 12-16-97 TIME 1506  
 TAKEN BY O Onyango DIR northeast  
 ROLL# 2 FRAME 15  
 SUBJECT Drum AKXX5026 and the sample collected from it

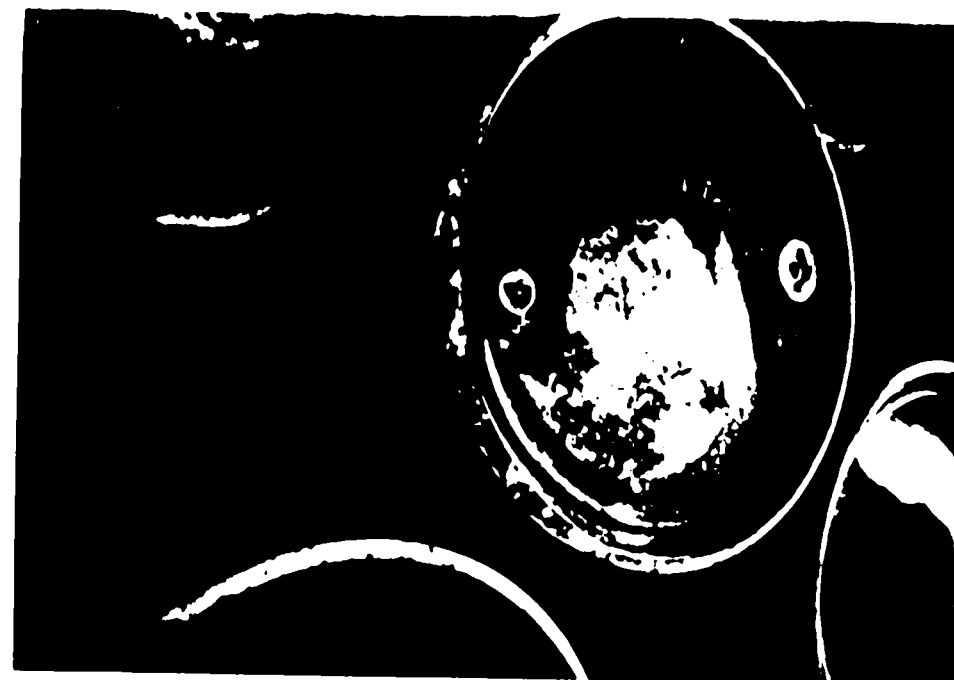
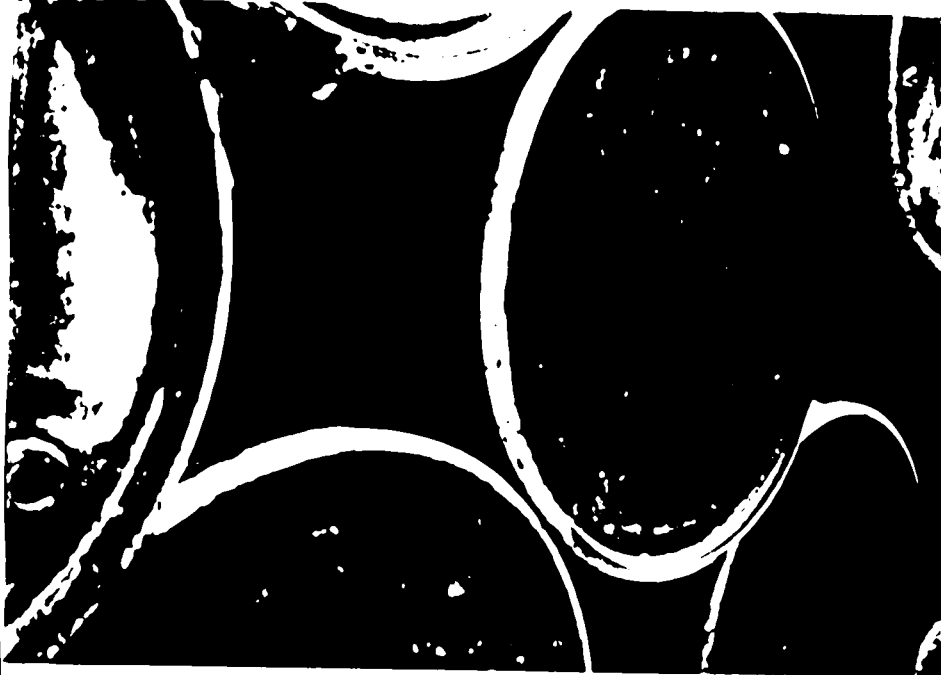
SITE R V Hopkins Inc Davenport, IA  
 I/DD S07-9711-007 PAN 0687RVSEXX  
 DATE 12-16-97 TIME 1506  
 TAKEN BY O Onyango DIR northeast  
 ROLL# 2 FRAME 16  
 SUBJECT Drum AKXX5027 and the sample collected from it



SITE R V Hopkins Inc Davenport, IA  
 I/DD S07-9711-007 PAN 0687RVSEXX  
 DATE 12-16-97 TIME 1806  
 TAKEN BY O Onyango DIR east  
 ROLL # 2 FRAME 17  
 SUBJECT Drum AKXX5028 and the sample collected from it

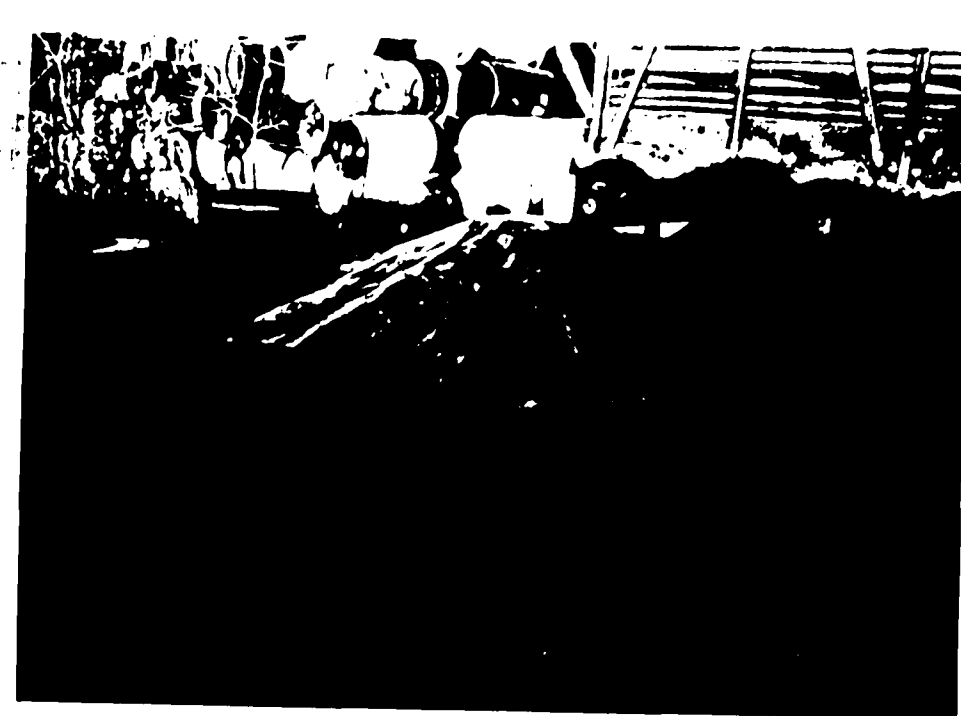
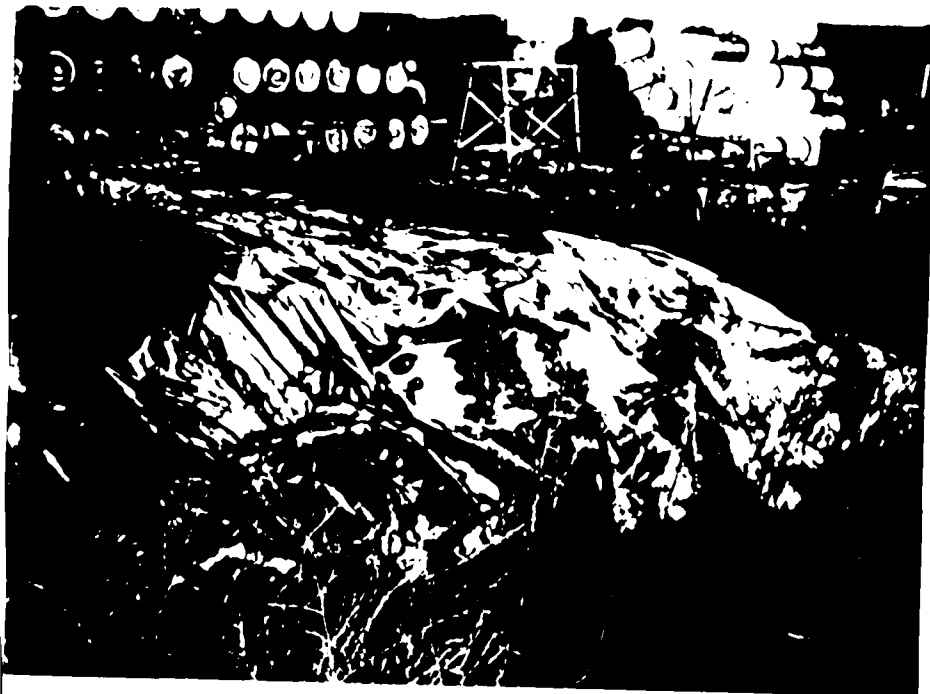


SITE R V Hopkins Inc Davenport, IA  
 I/DD S07-9711-007 PAN 0687RVSEXX  
 DATE 12-16-97 TIME 1507  
 TAKEN BY O Onyango DIR east  
 ROLL # 2 FRAME 18  
 SUBJECT Drum AKXX5029 and the sample collected



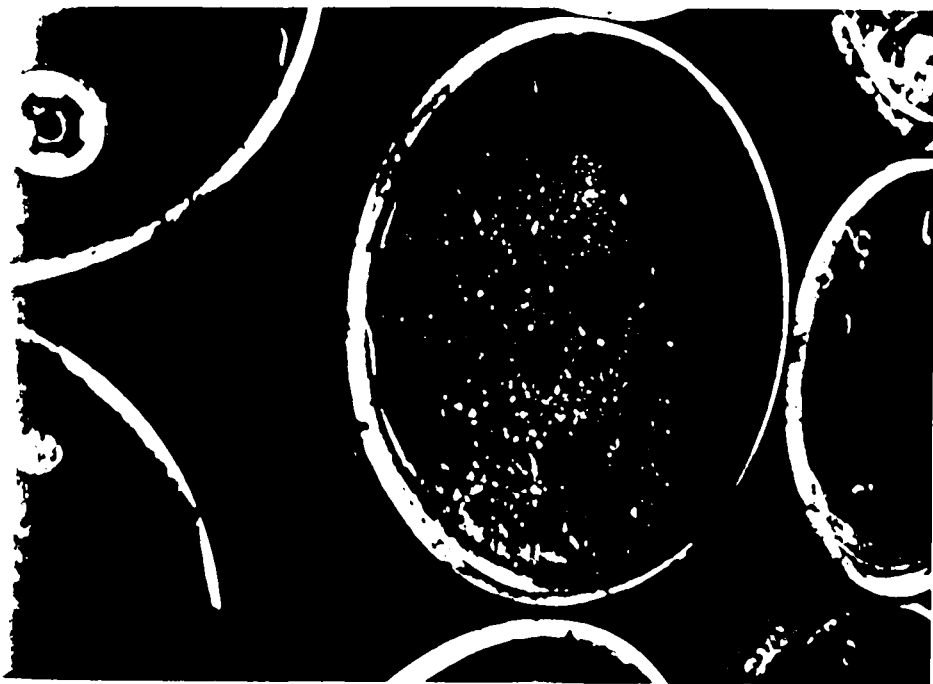
SITE R V Hopkins Inc Davenport, IA  
 I/DD S07-9711-007 PAN 0687RVSEXX  
 DATE 12-16-97 TIME 1509  
 TAKEN BY O Onyango DIR northwest  
 ROLL # 2 FRAME 19  
 SUBJECT Drum D165 containing RCRA hazardous w

SITE R V Hopkins Inc Davenport, IA  
 I/DD S07-9711-007 PAN 0687RVSEXX  
 DATE 12-16-97 TIME 1510  
 TAKEN BY O Onyango DIR west  
 ROLL # 2 FRAME 20  
 SUBJECT Drum D071 containing RCRA hazardous w



SITE R V Hopkins Inc Davenport, IA  
 IDD S07-9711-007 PAN 0687RVSEXX  
 DATE 12-16-97 TIME 1513  
 TAKEN BY O Onyango DIR southeast  
 ROLL# 2 FRAME 22  
 SUBJECT Waste pile # 1 (North of Area D)

SITE R V Hopkins Inc Davenport, IA  
 IDD S07-9711-007 PAN 0687RVSEXX  
 DATE 12-16-97 TIME 1514  
 TAKEN BY O Onyango DIR northeast  
 ROLL# 2 FRAME 23  
 SUBJECT Waste pile # 2 (North and East of pile #1)



SITE R V Hopkins Inc Davenport, IA  
 ID# S07-9711-007 PAN 0687RVSEXX  
 DATE 12-16-97 TIME 1512  
 TAKEN BY O Onyango DIR west  
 ROLL# 2 FRAME 21  
 SUBJECT Drum D099 containing RCRA hazardous waste



SITE R V Hopkins Inc Davenport, IA  
 ID# S07-9711-007 PAN 0687RVSEXX  
 DATE 12-16-97 TIME 1514  
 TAKEN BY O Onyango DIR northeast  
 ROLL# 2 FRAME 23  
 SUBJECT Waste pile # 2 (North and East of pile #1)

## **ATTACHMENT 6**

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### **Field Sheets and Chain of Custody Forms**

**CHAIN OF CUSTODY RECORD  
ENVIRONMENTAL PROTECTION AGENCY REGION VII**

ACTIVITY LEADER(Print) <b>KUDLINSKI</b>	NAME OF SURVEY OR ACTIVITY <b>R.V. HOPKINS</b>	DATE OF COLLECTION <b>16</b> <b>12</b> <b>97</b> DAY MONTH YEAR	SHEET <b>1</b> of <b>2</b>
--	---	---	-------------------------------

**CONTENTS OF SHIPMENT**

**DRUMMED WASTE**

SAMPLE NUMBER	TYPE OF CONTAINER				VOA SET (2 VIALS EA)	SAMPLING MEDIA				RECEIVING LABORATORY REMARKS OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	CUBITAINER	BOTTLE	BOTTLE	BOTTLE		water	sediment	dust	other	
AKXX5-001		1				X				TCLP METALS 519
002		1				X				
003		1				X				
004		1				X				
005		1				X				
006		1				X				
007		1				X				
008		1				X				
009		1				X				
010		1				X				
012		1				X				
013		1				X				
014		1				X				
015		1				X				
016		1				X				
017		1				X				
018		1				X				
019		1				X				
020		1				X				
021		1				X				
022		1				X				
023		1				X				
024		1				X				
025		1				X				

DESCRIPTION OF SHIPMENT _____ PIECE(S) CONSISTING OF _____ BOXES _____ ICE CHEST(S) OTHER _____	MODE OF SHIPMENT _____ COMMERCIAL CARRIER _____ _____ COURIER _____ _____ SAMPLER CONVEYED _____
---	---

PERSONNEL CUSTODY RECORD			
RELINQUISHED BY (SAMPLER) <i>James F. Holth</i> <input checked="" type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED	DATE  	TIME  	RECEIVED BY  <input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED
RELINQUISHED BY  <input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED	DATE  	TIME  	RECEIVED BY  <input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED
RELINQUISHED BY  <input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED	DATE  	TIME  	RECEIVED BY  <input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED



**CHAIN OF CUSTODY RECORD**  
**ENVIRONMENTAL PROTECTION AGENCY REGION VII**

ACTIVITY LEADER(Print) <u>KUDLINSKI</u>	NAME OF SURVEY OR ACTIVITY <u>R.V. HOPKINS</u>	DATE OF COLLECTION <u>16</u> <u>12</u> <u>97</u> DAY MONTH YEAR	SHEET <u>1</u> of <u>2</u>
--	---	---	-------------------------------

**CONTENTS OF SHIPMENT**

DUMMED WASTE

SAMPLE NUMBER	CONTAINER				VOA SET (2 VIALS EA)	SAMPLE MEDIA				RECEIVING LABORATORY REMARKS OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)	
	CONTAINER	BOTTLE	BOTTLE	BOTTLE		WATER	SO <sub>2</sub>	SEDIMENT	DUST		OTHER
AKXXS-001		1				X				TCLP METALS S19	
002		1				X					
003		1				X					
004		1				X					
005		1				X					
006		1				X					
007		1				X					
008		1				X					
009		1				X					
010		1				X					
012		1				X					
013		1				X					
014		1				X					
015		1				X					
016		1				X					
017		1				X					
018		1				X					
019		1				X					
020		1				X					
021		1				X					
022		1				X					
023		1				X					
024		1				X					
025		1				X					

DESCRIPTION OF SHIPMENT _____ PIECE(S) CONSISTING OF _____ BOX(ES) _____ ICE CHEST(S) OTHER _____	MODE OF SHIPMENT _____ COMMERCIAL CARRIER _____ _____ COURIER _____ _____ SAMPLER CONVEYED _____ (SHIPPING DOCUMENT NUMBER)
---	--

PERSONNEL CUSTODY RECORD			
RELINQUISHED BY (SAMPLER) <u>Jane F. Tholke</u>	DATE	TIME	RECEIVED BY
<input checked="" type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED			<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED
REASON FOR CHANGE OF CUSTODY			
RELINQUISHED BY	DATE	TIME	RECEIVED BY
<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED			<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED
REASON FOR CHANGE OF CUSTODY			
RELINQUISHED BY	DATE	TIME	RECEIVED BY
<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED			<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED
REASON FOR CHANGE OF CUSTODY			

DRAFT

FIELD SHEET  
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII  
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY. **98** ACTNO: **AKXX5** SAMNO: **001** QCC: **—** MEDIA: **SOIL** PL: **KUDLINSKI**  
ACTIVITY DES: **R.V. HOPKINS**  
LOCATION: **DAVENPORT, IOWA** PROJECT NUM: REF LATITUDE: **— — —**  
PT: LONGITUDE: **— — —**  
SAMPLE DES: **DRUM # AKXX5001**  
LOCATION: **— — —** DATE TIME FROM REF PT  
CASE/BATCH/SMO: **— / — / —** LAB: **—** BEG: **— / — / —** : **—** EAST: **—**  
STORET/AIRS NO: **— — —** END: **12 / 14 / 97 13 : 30** NORTH: **—**  
DOWN: **—**

ANALYSIS REQUESTED:

CONTAINER PRESERVATIVE MGP NAME  
GLASS 8 oz. ICE 4°C SI9 TCLP METALS, NO Hg

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: **—** OPERABLE UNIT: **—**

NO DRUM HAZARDOUS WASTE LABEL

GRAY SOLID 1/2 50% FULL

SAMPLE COLLECTED BY : JIM KUDLINSKI, EPA CSC

DRAFT

FIELD SHEET  
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII  
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FL. 98 ACTNO: AKXX5 SAMNO: 002 QCC:    MEDIA: SOIL PL: KUDLINSKI

ACTIVITY DES: R.V. HOPKINS

LOCATION: DAVENPORT, IOWA

PROJECT NUM:   

REF LATITUDE:   

PT: LONGITUDE:   

SAMPLE DES: DRUM # AKXX5002

LOCATION:   

CASE/BATCH/SMO:   /  /  

STORET/AIRS NO:   /  /  

LAB:   

BEG:   

END:   

DATE

TIME

FROM REF PT

EAST:   

NORTH:   

DOWN:   

ANALYSIS REQUESTED:

CONTAINER

GLASS 8 oz.

PRESERVATIVE

ICE 4°C

MGP

S19

NAME

TCLP METALS, NO Hg

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER:    OPERABLE UNIT:   

NO HAZARDOUS WASTE LABEL ON DRUM  
CONTAINS GRAY SOLID 75% FULL

SAMPLE COLLECTED BY: JIM KUDLINSKI, EPA OSC

DRAFT

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII  
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY 98 ACTNO: AKXX5 SAMNO: 003 QCC: MEDIA: SOIL PL: KUDLINSKI

ACTIVITY DES: R.V. HOPKINS

LOCATION: DAVENPORT, IOWA

PROJECT NUM:

REF LATITUDE:

PT: LONGITUDE:

SAMPLE DES: DRUM # AKXX5003

LOCATION:

CASE/BATCH/SMO:

STORET/AIRS NO:

LAB:

BEG:

END:

DATE

TIME

FROM REF PT

EAST:

NORTH:

DOWN:

12/16/97 13:40

ANALYSIS REQUESTED:

CONTAINER

GLASS 8 oz.

PRESERVATIVE

ICE 4°C

MGP

S19

NAME

TCLP METALS, NO Hg

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:

DRUM CONTAINS GRAY/BROWN SOLID  
100% FULL

ACCUMULATION START DATE 2/14/95

D006, D008

HAZARDOUS WASTE LABEL

SAMPLE COLLECTED BY : JIM KUDLINSKI, EPA OSC

DRAFT

FIELD SHEET  
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII  
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY 98 ACTNO: AKXX5 SAMNO: 004 OCC: MEDIA: SOIL PL: KUDLINSKI

ACTIVITY DES: R.V. HOPKINS

LOCATION: DAVENPORT, IOWA

PROJECT NUM:

REF LATITUDE:

PT: LONGITUDE:

SAMPLE DES: DRUM # AKXX5004

LOCATION:

DATE TIME FROM REF PT

CASE/BATCH/SMO:

BEG:

EAST:

STORET/AIRS NO:

LAB:

END:

12/16/97 13:45

NORTH:

DOWN:

ANALYSIS REQUESTED:

CONTAINER

PRESERVATIVE

MGP

NAME

GLASS 8 oz.

ICE 4°C

S19

TCLP METALS, NO Hg

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:

DRUM CONTAINS GRAY/BROWN SOLID 100% FULL

HAZARDOUS WASTE LABEL

ACCUMULATION START DATE 2/14/95

"BURNER ASH"

D006, D008

SAMPLE COLLECTED BY : JIM KUDLINSKI, EPA OSC

DRAFT

FIELD SHEET  
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII  
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY. 98 ACTNO: AKXX5 SAMNO: 005 QCC: MEDIA: SOIL PL: KUDLINSKI

ACTIVITY DES: R.V. HOPKINS

LOCATION: DAVENPORT, IOWA

PROJECT NUM:

REF LATITUDE:

PT: LONGITUDE:

SAMPLE DES: DRUM # AKXX5005

LOCATION:

DATE

TIME

FROM REF PT

CASE/BATCH/SMO:

BEG:

EAST:

STORET/AIRS NO:

LAB:

END:

12/16/97 13:50

NORTH:

DOWN:

ANALYSIS REQUESTED:

CONTAINER

PRESERVATIVE

MGP

NAME

GLASS 8 oz.

ICE 4°C

S19

TCLP METALS, NO Hg

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:

DRUM CONTAINS GRAY/BROWN SOLID 100% FULL

HAZARDOUS WASTE LABEL

ACCUMULATION START DATE 3/16/95

"BURNER ASH" D006, D008

SAMPLE COLLECTED BY : JIM KUDLINSKI, EPA CSC

DRAFT

FIELD SHEET  
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII  
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY. 98 ACTNO: AKXX5 SAMNO: 006 QCC: MEDIA: SOIL PL: KUDLINSKI

ACTIVITY DES: R.V. HOPKINS

LOCATION: DAVENPORT, IOWA

PROJECT NUM:

REF LATITUDE:

PT: LONGITUDE:

SAMPLE DES: DRUM # AKXX5006

LOCATION:

DATE

TIME

FROM REF PT

CASE/BATCH/SMO:

BEG:

EAST:

STORET/AIRS NO:

LAB:

END:

12/16/97 13:55

NORTH:

DOWN:

ANALYSIS REQUESTED:

CONTAINER

PRESERVATIVE

MGP

NAME

GLASS 8 oz.

ICE 4°C

SI9

TCLP METALS, NO Hg

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:

DRUM CONTAINS GRAY/BROWN SOLID 100% FILL

HAZARDOUS WASTE LABEL

ACCUMULATION START DATE 3-28-95

"BURNER ASH" D006, D008

SAMPLE COLLECTED BY : JIM KUDLINSKI, EPA CSC

DRAFT

FIELD SHEET  
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII  
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY. 98 ACTNO: AKXX5 SAMNO: 007 QCC: MEDIA: SOIL PL: KUDLINSKI

ACTIVITY DES: R.V. HOPKINS

LOCATION: DAVENPORT, IOWA

PROJECT NUM:

REF LATITUDE:

PT: LONGITUDE:

SAMPLE DES: DRUM # AKXX5007

LOCATION:

CASE/BATCH/SMO:

STORET/AIRS NO:

LAB:

BEG:

END:

DATE

TIME

FROM REF PT

EAST:

NORTH:

DOWN:

ANALYSIS REQUESTED:

CONTAINER

PRESERVATIVE

GLASS 6 oz.

ICE 4°C

MGP

SI9

NAME

TCLP METALS, NO Hg

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:

DRUM CONTAINS GRAY/BROWN SOLIDS 100% FULL

HAZARDOUS WASTE LABEL ACCUMULATION START DATE  
4-2-95

"BURNER 48H" 0006, 0008

SAMPLE COLLECTED BY : JIM KUDLINSKI, EPA CSC



DRAFT

FIELD SHEET  
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII  
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY. 98 ACTNO: AKXX5 SAMNO: 008 QCC: MEDIA: SOIL PL: KUDLINSKI

ACTIVITY DES: R.V. HOPKINS

LOCATION: DAVENPORT, IOWA

PROJECT NUM:

REF LATITUDE:

PT: LONGITUDE:

SAMPLE DES: DRUM # AKXX5003

LOCATION:

CASE/BATCH/SMO:

STORET/AIRS NO:

LAB:

BEG:

END:

DATE

TIME

FROM REF PT

EAST:

NORTH:

DOWN:

ANALYSIS REQUESTED:

CONTAINER

PRESERVATIVE

MGP

NAME

GLASS 6 oz.

ICE 4°C

SI9

TCLP METALS, NO Hg

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:

DRUM CONTAINS GRAY SOLID 100% FULL

HAZARDOUS WASTE LABEL, NO ACCUMULATION START DATE

"BURNER ASH" D006, D008

SAMPLE COLLECTED BY : JIM KUDLINSKI, EPA CSC

DRAFT

FIELD SHEET  
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII  
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY. 90 ACTNO: AKXX5 SAMNO: 009 QCC:    MEDIA: SOIL PL: KUDLINSKI  
ACTIVITY DES: R.V. HOPKINS  
LOCATION: DAVENPORT, IOWA PROJECT NUM:    REF LATITUDE:     
SAMPLE DES: DRUM # 4KXX5009 PT: LONGITUDE:     
LOCATION:    DATE    TIME    FROM REF PT  
CASE/BATCH/SMO:    /    /    LAB:    BEG:    /    /    :    EAST:     
STORET/AIRS NO:    /    /    END: 12 / 16 / 97 14 : 10 NORTH:     
ANALYSIS REQUESTED:    DOWN:   

CONTAINER PRESERVATIVE MGP NAME  
GLASS 8 oz. ICE 4°C SI9 TCLP METALS, NO Hg

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER:    OPERABLE UNIT:   

DRUM CONTAINS GRAY/BROWN SOLID 100% FULL

HAZARDOUS WASTE LABEL ACCUMULATION START DATE 5-18-95

"BURNED AWAY" D006, D008

SAMPLE COLLECTED BY : JIM KUDLINSKI, EPA OSC

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII  
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY. 98 ACTNO: AKXX5 SAMNO: 010 QCC: MEDIA: SOIL PL: KUDLINSKI

ACTIVITY DES: R.V. HOPKINS

LOCATION: DAVENPORT, IOWA

PROJECT NUM:

REF LATITUDE:

PT: LONGITUDE:

SAMPLE DES: DRUM # AKXX5010

LOCATION:

DATE

TIME

FROM REF PT

CASE/BATCH/SMO:

BEG:

EAST:

STORET/AIRS NO:

LAB:

END:

12/16/97 14:15

NORTH:

DOWN:

ANALYSIS REQUESTED:

CONTAINER

PRESERVATIVE

MGP

NAME

GLASS 8 oz.

ICE 4°C

SI9

TCLP METALS, NO Hg

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:

DRUM CONTAINS GRAY SOLID 7/8 FULL

HAZARDOUS WASTE LABEL

ACCUMULATION START DATE 96?

"BOLDED APT" D006, D009

SAMPLE COLLECTED BY : JIM KUDLINSKI, EPA CSC

DRAFT

FIELD SHEET  
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII  
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY. 90 ACTNO: AKXX5 SAMNO: 011 QCC:    MEDIA: SOIL PL: KUDLINSKI

ACTIVITY DES: R.V. HOPKINS

LOCATION: DAVENPORT, IOWA

PROJECT NUM:   

REF LATITUDE:   

PT: LONGITUDE:   

SAMPLE DES: DRUM # AKXX5011

LOCATION:   

CASE/BATCH/SMO:   /  /  

STORET/AIRS NO:   

LAB:   

BEG:   

END: 12/16/97

DATE

TIME

FROM REF PT

EAST:   

NORTH:   

DOWN:   

ANALYSIS REQUESTED:

CONTAINER

GL-SS 6 oz.

PRESERVATIVE

ICE 4°C

MGP

SI9

NAME

TCLP METALS, NO Hg

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER:    OPERABLE UNIT:   

DRUM CONTAINS GRAY SOIL 7/8 FULL

HAZARDOUS WASTE LABEL

ACCUMULATION START DATE, NOT PRESENT

"BURNED ASH" D006, D008

SAMPLE COLLECTED BY : JIM KUDLINSKI, EPA OSC

DRAFT

FIELD SHEET  
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII  
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY. 98 ACTNO: AKXX5 SAMNO: 012 QCC:    MEDIA: SOIL PL: KUDLINSKI  
ACTIVITY DES: R.V. HOPKINS  
LOCATION: DAVENPORT, IOWA PROJECT NUM:    REF LATITUDE:     
SAMPLE DES: DRUM # 4KXX5012 PT: LONGITUDE:     
LOCATION:    DATE    TIME    FROM REF PT  
CASE/BATCH/SMO:    /    /    LAB:    BEG:    /    /    :    :    EAST:     
STORET/AIRS NO:    /    /    END: 12 / 16 / 97 14 : 10 NORTH:     
ANALYSIS REQUESTED:    DOWN:   

CONTAINER GLASS 6 oz. PRESERVATIVE ICE 4°C MGP S19 NAME TCLP METALS, NO Hg

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER:    OPERABLE UNIT:   

DRUM CONTAINS GRAY SOLID 7/8 FULL

HAZARDOUS WASTE LABEL

ACCUMULATION START DATE NOT READABLE

"BURNED ASH" D006, D008

SAMPLE COLLECTED BY : JIM KUDLINSKI, EPA CSC

DRAFT

FIELD SHEET  
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII  
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY. 98 ACTNO: AKXX5 SAMNO: 013 QCC: MEDIA: SOIL PL: KUDLINSKI

ACTIVITY DES: R.V. HOPKINS

LOCATION: DAVENPORT, IOWA

PROJECT NUM:

REF LATITUDE:

PT: LONGITUDE:

SAMPLE DES: DRUM # AKXX5013

LOCATION:

CASE/BATCH/SMO:

STORET/AIRS NO:

DATE

TIME

FROM REF PT

BEG:

END:

12/16/97 14:25

EAST:

NORTH:

DOWN:

ANALYSIS REQUESTED:

CONTAINER

PRESERVATIVE

MGP

NAME

GLASS 8 oz.

ICE 4°C

SI9

TCLP METALS, NO Hg

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:

DRUM CONTAINS GRAY SOLID 100% FULL

HAZARDOUS WASTE LABEL

ACCUMULATION START DATE NOT READABLE

"BURNED AS IT" 0006, 2008

SAMPLE COLLECTED BY : JIM KUDLINSKI, EPA OSC

DRAFT

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII  
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

ACTNO: AKXX5 SAMNO: 014 QCC: MEDEA: SOIL PL: KUDLINSKI  
ACTIVITY DES: R.V. HOPKINS  
LOCATION: DAVENPORT, IOWA PROJECT NUM: REF LATITUDE:       
SAMPLE DES: DRUM #AKXX5014 PT: LONGITUDE:       
LOCATION:      DATE TIME FROM REF PT  
CASE/BATCH/SMO:      LAB:      BEG:      END: 12/16/97 14:00 EAST:       
STORET/AIRS NO:      NORTH:       
ANALYSIS REQUESTED: DOWN:       
CONTAINER PRESERVATIVE MGP NAME  
GLASS 6 oz. ICE 4°C S19 TCLP METALS, No Hg  
COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER:      OPERABLE UNIT:     

DRUM CONTAINS GRAY/BROWN SOLID 7/8 FULL

HAZARDOUS WASTE LABEL

"BROKEN AS" D006, D008

ACCUMULATION START DATE UNREADABLE

COLLECTED BY : JIM KUDLINSKI, EPA OSC

DRAFT

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII  
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 98 ACTNO: AKXX5 SAMNO: 015 QCC: MEDIA: SOIL PL: KUDLINSKI

ACTIVITY DES: R.V. HOPKINS  
LOCATION: DAVENPORT, IOWA PROJECT NUM: REF LATITUDE: PT: LONGITUDE:

SAMPLE DES: DRUM # 41KXX5015

LOCATION: CASE/BATCH/SMO: STORET/AIRS NO: LAB: BEG: DATE TIME FROM REF PT  
END: 12/16/97 14:55 EAST: NORTH: DOWN:

ANALYSIS REQUESTED:

CONTAINER GLASS 6 oz. PRESERVATIVE ICE 4°C MGP NAME  
S19 TCLP METALS, NO Hg

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:

DRUM CONTAINS GRAY SOLID 3/4 FULL

HAZARDOUS WASTE LABEL

ACCUMULATION START DATE 3/7/95

"BURNER ASH"

PLE COLLECTED BY : JIM KUDLINSKI, EPA OSC



DRAFT

FIELD SHEET  
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII  
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY. 98 ACTNO: AKXX5 SAMNO: 016 QCC: MEDIA: SOIL PL: KUDLINSKI

ACTIVITY DES: R.V. HOPKINS

LOCATION: DAVENPORT, IOWA

PROJECT NUM:

REF LATITUDE:

PT: LONGITUDE:

SAMPLE DES: DRUM # AKXX5016

LOCATION:

CASE/BATCH/SMO:

STORET/AIRS NO:

LAB:

BEG:

END:

DATE

TIME

FROM REF PT

EAST:

NORTH:

DOWN:

ANALYSIS REQUESTED:

CONTAINER

GLASS 8 oz.

PRESERVATIVE

ICE 4°C

MGP

S19

NAME

TCLP METALS, NO Hg

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:

DRUM CONTAINS GRAY/SOLID 7/8 FULL

HAZARDOUS WASTE LABEL

ACCUMULATION START DATE 3-21-95

"BORDER ASH"

SAMPLE COLLECTED BY : JIM KUDLINSKI, EPA CSC

DRAFT

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII  
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FILE 98 ACTNO: AKXX5 SAMNO: 017 QCC: MEDEA: SOIL PL: KUDLINSKI

ACTIVITY DES: R.V. HOPKINS

LOCATION: DAVENPORT, IOWA

PROJECT NUM:

REF LATITUDE:

PT: LONGITUDE:

SAMPLE DES: DRUM # AKXX5C17

LOCATION:

CASE/BATCH/SMO:

STORET/AIRS NO:

LAB:

BEG:

END:

DATE

TIME

FROM REF PT

EAST:

NORTH:

DOWN:

ANALYSIS REQUESTED:

CONTAINER

GLASS 8 oz.

PRESERVATIVE

ICE 4°C

MGP

S19

NAME

TCLP METALS, NO Hg

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:

DRUM CONTAINS GRAY/SOLID 7/8 FULL

14240000 WHITE LABEL

NO ACCUMULATION START DATE

"BURNER 750" DOOB, DOOB

SAMPLE COLLECTED BY : JIM KUDLINSKI, EPA CSC

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII  
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 98 ACTNO: AKXX5 SAMNO: 018 QCC: MEDIA: SOIL PL: KUDLINSKI

ACTIVITY DES: R.V. HOPKINS

LOCATION: DAVENPORT, IOWA

PROJECT NUM:

REF LATITUDE:

PT: LONGITUDE:

SAMPLE DES: DRUM #AKXX5018

LOCATION:

DATE

TIME

FROM REF PT

CASE/BATCH/SMO:

BEG:

EAST:

STORET/AIRS NO:

LAB:

END:

12/16/97 14:50

NORTH:

DOWN:

ANALYSIS REQUESTED:

CONTAINER

PRESERVATIVE

MGP

NAME

GLASS 8 oz.

ICE 4°C

S19

TCLP METALS, No Hg

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:

DRUM CONTAINS GRAY/RED SOLID 3/4 FULL

HAZARDOUS WASTE LABEL

ACCUMULATION START DATE 7-18-95

"BURNER 73H" DOOB, DOOB

SAMPLE COLLECTED BY : JIM KUDLINSKI, EPA OSC

DRAFT

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII  
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

ACTNO: AKXX5 SAMNO: 019 QCC: MEDIA: SOIL PL: KUDLINSKI

ACTIVITY DES: R.V. HOPKINS

LOCATION: DAVENPORT, IOWA

PROJECT NUM:

REF LATITUDE:

PT: LONGITUDE:

SAMPLE DES: DRUM # AKXX5019

LOCATION:

CASE/BATCH/SMO:

STORET/AIRS NO:

LAB:

BEG:

END:

DATE

TIME

FROM REF PT

EAST:

NORTH:

DOWN:

ANALYSIS REQUESTED:

CONTAINER

PRESERVATIVE

GLASS 6 oz.

ICE 4°C

MGP

S19

NAME

TCLP METALS, NO Hg

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:

DRUM CONTAINS GRAY SOLID 100% FULL

HAZARDOUS WASTE LABEL

NO INFO FURNISHED ON LABEL

SAMPLE COLLECTED BY: JIM KUDLINSKI, EPA CSC

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII  
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY. 98 ACTNO: AKXX5 SAMNO: 020 QCC: MEDIA: SOIL PL: KUDLINSKI

ACTIVITY DES: R.V. HOPKINS

LOCATION: DAVENPORT, IOWA

PROJECT NUM:

REF LATITUDE:

PT: LONGITUDE:

SAMPLE DES: DRUM # AKXX5020

LOCATION:

DATE

TIME

FROM REF PT

CASE/BATCH/SMO:

BEG:

EAST:

STORET/AIRS NO:

LAB:

END:

12/16/97 15:00

NORTH:

DOWN:

ANALYSIS REQUESTED:

CONTAINER

PRESERVATIVE

GLASS 8 oz.

ICE 4°C

MGP

NAME

S19

TCLP METALS, NO Hg

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:

DRUM CONTAINS GRAY SOLID 100% FULL

HAZARDOUS WASTE LABEL -- NO INFO COMPLETED ON LABEL

SAMPLE COLLECTED BY : JIM KUDLINSKI, EPA CSC

DRAFT

FIELD SHEET  
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII  
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY. 98 ACTNO: AKXX5 SAMNO: 021 QCC:    MEDIA: SOIL PL: KUDLINSKI

ACTIVITY DES: R.V. HOPKINS

LOCATION: DAVENPORT, IOWA

PROJECT NUM:   

REF LATITUDE:   

PT: LONGITUDE:   

SAMPLE DES: DRUM # AKXX5021

LOCATION:   

CASE/BATCH/SMO:   /  /  

STORET/AIRS NO:   

LAB:   

BEG:   

END: 12/16/97

DATE

TIME

FROM REF PT

EAST:   

NORTH:   

DOWN:   

ANALYSIS REQUESTED:

CONTAINER

PRESERVATIVE

MGP

NAME

GLASS 8 oz.

ICE 4°C

S19

TCLP METALS, NO Hg

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER:    OPERABLE UNIT:   

DRUM CONTAINS GRAY SOLID 100% FULL

HAZARDOUS WASTE LABEL

ACCUMULATION START DATE 4/2/95

"BURNER ASH" D006, D008

SAMPLE COLLECTED BY : JIM KUDLINSKI, EPA OSC

DRAFT

FIELD SHEET  
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII  
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY. 98 ACTNO: AKXX5 SAMNO: 022 QCC:    MEDIA: SOIL PL: KUDLINSKI

ACTIVITY DES: R.V. HOPKINS

LOCATION: DAVENPORT, IOWA

PROJECT NUM:   

REF LATITUDE:   

PT: LONGITUDE:   

SAMPLE DES: DRUM # AKXX5022

LOCATION:   

CASE/BATCH/SMO:   /  /  

STORET/AIRS NO:   

LAB:   

BEG:   

DATE

TIME

FROM REF PT

END: 12/16/97

15:10

EAST:   

NORTH:   

DOWN:   

ANALYSIS REQUESTED:

CONTAINER

PRESERVATIVE

GLASS 6 oz.

ICE 4°C

MGP

NAME

S19

TCLP METALS, NO Hg

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER:    OPERABLE UNIT:   

DRUM CONTAINS GRAY SOLID 100% FULL

HAZARDOUS WASTE LABEL -- ACCUMULATION START DATE 7/18/95

"BLOWER 457" D006, D005

SAMPLE COLLECTED BY : JIM KUDLINSKI, EPA CSC

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII  
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY. 98 ACTNO: AKXX5 SAMNO: 023 QCC:    MEDIA: SOIL PL: KUDLINSKI

ACTIVITY DES: R.V. HOPKINS

LOCATION: DAVENPORT, IOWA

PROJECT NUM:   

REF LATITUDE:   

PT: LONGITUDE:   

SAMPLE DES: DRUM # AKXX5023

LOCATION:   

CASE/BATCH/SMO:   /  /  

STORET/AIRS NO:   

LAB:   

BEG:   

END:   

DATE

TIME

FROM REF PT

EAST:   

NORTH:   

DOWN:   

ANALYSIS REQUESTED:

CONTAINER

PRESERVATIVE

MGP

NAME

GLASS 6 oz.

ICE 4°C

SI9

TCLP METALS, No Hg

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER:    OPERABLE UNIT:   

DRUM CONTAINS GRAY SOLID 7/8 FULL

HAZARDOUS WASTE LABEL ACCUMULATION START DATE 3-22-95

"BURNED ASH"

DOCG, 0008

SAMPLE COLLECTED BY : JIM KUDLINSKI, EPA OSC



DRAFT

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII  
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY 98 ACTNO: AKXX5 SAMNO: 024 QCC: MEDEA: SOIL PL: KUDLINSKI

ACTIVITY DES: R.V. HOPKINS

LOCATION: DAVENPORT, IOWA

PROJECT NUM:

REF LATITUDE:

PT: LONGITUDE:

SAMPLE DES: DRUM # AKXX5024

LOCATION:

CASE/BATCH/SMO:

STORET/AIRS NO:

LAB:

BEG:

END:

DATE

TIME

FROM REF PT

EAST:

NORTH:

DOWN:

12/16/97 15:20

ANALYSIS REQUESTED:

CONTAINER

GLASS 8 oz.

PRESERVATIVE

ICE 4°C

MGP

S19

NAME

TCLP METALS, NO Hg

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:

DRUM CONTAINS GREY SOLID 7/8 FULL

HAZARDOUS WASTE LABEL ACCUMULATION START DATE 7/17/95

"ECONER ASIT"

D006, D008

SAMPLE COLLECTED BY : JIM KUDLINSKI, EPA OSC

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII  
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY. 98 ACTNO: AKXX5 SAMNO: 025 QCC: MEDIA: SOIL PL: KUDLINSKI

ACTIVITY DES: R.V. HOPKINS

LOCATION: DAVENPORT, IOWA

PROJECT NUM:

REF LATITUDE:

PT: LONGITUDE:

SAMPLE DES: DRUM # AKXX5025

LOCATION:

CASE/BATCH/SMO:

STORET/AIRS NO:

LAB:

BEG:

END:

DATE

TIME

FROM REF PT

EAST:

NORTH:

DOWN:

12/16/97 15:25

ANALYSIS REQUESTED:

CONTAINER

PRESERVATIVE

MGP

NAME

GLASS 6 oz.

ICE 4°C

SI9

TCLP METALS, NO Hg

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:

DRUM CONTAINS GRAY SOLID 100% FULL

HAZARDOUS WASTE LABEL

ACCUMULATION START DATE 2-21-95

"BURNER ASH"

PLE COLLECTED BY : JIM KUDLINSKI, EPA OSC

DRAFT

FIELD SHEET  
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII  
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY. 98 ACTNO: AKXX5 SAMNO: 026 QCC: MEDIA: SOIL PI: KUDLINSKI

ACTIVITY DES: R.V. HOPKINS

LOCATION: DAVENPORT, IOWA

PROJECT NUM:

REF LATITUDE:

PT: LONGITUDE:

SAMPLE DES: DRUM # AKXX5026

LOCATION:

CASE/BATCH/SMO:

BEG: DATE

TIME

FROM REF PT

STORET/AIRS NO:

LAB:

END:

12/16/97 15:30

EAST:

NORTH:

DOWN:

ANALYSIS REQUESTED:

CONTAINER

PRESERVATIVE

MGP

NAME

GLASS 8 oz.

ICE 4°C

S19

TCLP METALS, NO Hg

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:

DRUM CONTAINS GRAY SOLID 3/4 FULL

HAZARDOUS WASTE LABEL, NO ACCUMULATION START DATE

"BURNER ASH" DOOB, DOOS

SAMPLE COLLECTED BY: JIM KUDLINSKI, EPA OSC

DRAFT

FIELD SHEET  
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII  
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY. 98 ACTNO: AKXX5 SAMNO: 027 QCC: MEDIA: SOIL PL: KUDLINSKI

ACTIVITY DES: R.V. HOPKINS

LOCATION: DAVENPORT, IOWA

PROJECT NUM:

REF LATITUDE:

PT: LONGITUDE:

SAMPLE DES: DRUM # AKX5027

LOCATION:

CASE/BATCH/SMO:

STORET/AIRS NO:

LAB:

BEG:

END:

DATE

TIME

FROM REF PT

EAST:

NORTH:

DOWN:

ANALYSIS REQUESTED:

CONTAINER

PRESERVATIVE

GLASS 8 oz.

ICE 4°C

MGP

S19

NAME

TCLP METALS, NO Hg

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:

DRUM CONTAINS DARK GRAY SOLID 100% FULL

HAZARDOUS WASTE LABEL

ACCUMULATION START DATE 10/9/96 "ASH"

NO OTHER INFO ON LABEL

SAMPLE COLLECTED BY: JIM KUDLINSKI, EPA OSC

DRAFT

FIELD SHEET  
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII  
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY. 98 ACTNO: AKXX5 SAMNO: 028 QCC: MEDIA: SOIL PL: KUDLINSKI

ACTIVITY DES: R.V. HOPKINS

LOCATION: DAVENPORT, IOWA

PROJECT NUM:

REF LATITUDE:

PT: LONGITUDE:

SAMPLE DES: DRUM # AKXX5026

LOCATION:

CASE/BATCH/SMO:

STORET/AIRS NO:

LAB:

BEG:

END:

DATE

TIME

FROM REF PT

EAST:

NORTH:

DOWN:

12/16/97 15:40

ANALYSIS REQUESTED:

CONTAINER

PRESERVATIVE

GLASS 8 oz.

ICE 4°C

MGP

S19

NAME

TCLP METALS, NO Hg

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:

DRUM CONTAINS BLACK/RED/GRAY SOLID 7/8 FULL

HAZARDOUS WASTE LABEL

NO ACCUMULATION START DATE

"BURNED FOR" 0006, 0008

SAMPLE COLLECTED BY : JIM KUDLINSKI, EPA CSC

DRAFT

FIELD SHEET  
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII  
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY 98 ACTNO: AKXX5 SAMNO: 029 QCC: MEDIA: SOIL PL: KUDLINSKI

ACTIVITY DES: R.V. HOPKINS

LOCATION: DAVENPORT, IOWA

PROJECT NUM:

REF LATITUDE:

PT: LONGITUDE:

SAMPLE DES: DRUM # AKXX5034

LOCATION:

CASE/BATCH/SMO:

STORET/AIRS NO:

LAB:

BEG:

END:

DATE

TIME

FROM REF PT

EAST:

NORTH:

DOWN:

ANALYSIS REQUESTED:

CONTAINER

PRESERVATIVE

MGP

NAME

GLASS 6 oz.

ICE 4°C

S19

TCLP METALS, NO Hg

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:

DRUM CONTAINS GFT SOLID

WICKED WASTE LABEL

NO ACCUMULATION START DATE

"CHANGE ASST" D006, D008

SAMPLE COLLECTED BY : JIM KUDLINSKI, EPA OSC

---

**ATTACHMENT 7**

**Analytical Data**

## ANALYSIS REQUEST REPORT

LABORATORY APPROVED DATA  
PROJECT LEADER APPROVAL PENDING

FOR ACTIVITY: AKXX5

LARSON, KEVIN

02/20/98 14:58:21

ALL REAL SAMPLES AND FIELD Q.C.

## \* LABO APPROVED

FY: 98 ACTIVITY: AKXX5 DESCRIPTION: R.V. HOPKINS LOCATION: DAVENPORT IOWA  
 STATUS: ACTIVE TYPE: SAMPLING - IN HOUSE ANALYSIS PROJECT: L30  
 LABO DUE DATE IS 2/15/98. REPORT DUE DATE IS 3/16/98.  
 INSPECTION DATE: 12/16/97 ALL SAMPLES RECEIVED DATE: 12/17/97  
 ALL DATA APPROVED BY LABO DATE: 02/18/98 FINAL REPORT TRANSMITTED DATE: 00/00/00  
 EXPECTED LABO TURNAROUND TIME IS 60 DAYS EXPECTED REPORT TURNAROUND TIME IS 90 DAYS  
 ACTUAL LABO TURNAROUND TIME IS 63 DAYS ACTUAL REPORT TURNAROUND TIME IS 0 DAYS  
 SITE CODE: X5 SITE: R.V. HOPKINS

SAMP. NO.	QCC	M	DESCRIPTION	SAMPLE # STATUS	CITY	STATE	AIRS/ STORET LOC NO	LAY- SECT	ER	BEG. DATE	BEG. TIME	END. DATE	END. TIME
001	S		NO DRUM HAZARDOUS WASTE LABEL	1	DAVENPORT	IOWA				12/16/97	13:30	12/16/97	13:30
002	S		NO DRUM HAZARDOUS WASTE LABEL	1	DAVENPORT	IOWA				12/16/97	13:35	12/16/97	13:35
003	S		HAZARDOUS WASTE LABEL-DC06 & D008	1	DAVENPORT	IOWA				12/16/97	13:40	12/16/97	13:40
004	S		HAZ. WASTE LABEL-D006 & D008/BURNER	ASH 1	DAVENPORT	IOWA				12/16/97	13:45	12/16/97	13:45
005	S		HAZ. WASTE LABEL-D006 & D008/BURNER	ASH 1	DAVENPORT	IOWA				12/16/97	13:50	12/16/97	13:50
006	S		HAZ. WASTE LABEL-D006 & D008/BURNER	ASH 1	DAVENPORT	IOWA				12/16/97	13:55	12/16/97	13:55
007	S		HAZ. WASTE LABEL-D006 & D008/BURNER	ASH 1	DAVENPORT	IOWA				12/16/97	14:00	12/16/97	14:00
008	S		HAZ. WASTE LABEL-D006 & D008/BURNER	ASH 1	DAVENPORT	IOWA				12/16/97	14:05	12/16/97	14:05
009	S		HAZ. WASTE LABEL-D006 & D008/BURNER	ASH 1	DAVENPORT	IOWA				12/16/97	14:10	12/16/97	14:10
010	S		HAZ. WASTE LABEL-D006 & D008/BURNER	ASH 1	DAVENPORT	IOWA				12/16/97	14:15	12/16/97	14:15
011	S		HAZ. WASTE LABEL-D006 & D008/BURNER	ASH 1	DAVENPORT	IOWA				12/16/97	14:15	12/16/97	14:15
012	S		HAZ. WASTE LABEL-D006 & D008/BURNER	ASH 1	DAVENPORT	IOWA				12/16/97	14:20	12/16/97	14:20
013	S		HAZ. WASTE LABEL-D006 & D008/BURNER	ASH 1	DAVENPORT	IOWA				12/16/97	14:25	12/16/97	14:25
014	S		HAZ. WASTE LABEL-D006 & D008/BURNER	ASH 1	DAVENPORT	IOWA				12/16/97	14:30	12/16/97	14:30
015	S		HAZ. WASTE LABEL-D006 & D008/BURNER	ASH 1	DAVENPORT	IOWA				12/16/97	14:35	12/16/97	14:35
016	S		HAZ. WASTE LABEL-D006 & D008/BURNER	ASH 1	DAVENPORT	IOWA				12/16/97	14:40	12/16/97	14:40
017	S		HAZ. WASTE LABEL-D006 & D008/BURNER	ASH 1	DAVENPORT	IOWA				12/16/97	14:45	12/16/97	14:45
018	S		HAZ. WASTE LABEL-D006 & D008/BURNER	ASH 1	DAVENPORT	IOWA				12/16/97	14:50	12/16/97	14:50
019	S		HAZ. WASTE LABEL-NO INFO. FURNISHED	1	DAVENPORT	IOWA				12/16/97	14:55	12/16/97	14:55
020	S		HAZ. WASTE LABEL-NO INFO. COMPLETED	1	DAVENPORT	IOWA				12/16/97	15:00	12/16/97	15:00
021	S		HAZ. WASTE LABEL-D006 & D008/BURNER	ASH 1	DAVENPORT	IOWA				12/16/97	15:05	12/16/97	15:05
022	S		HAZ. WASTE LABEL-D006 & D008/BURNER	ASH 1	DAVENPORT	IOWA				12/16/97	15:10	12/16/97	15:10
023	S		HAZ. WASTE LABEL-D006 & D008/BURNER	ASH 1	DAVENPORT	IOWA				12/16/97	15:15	12/16/97	15:15



						LABORATORY APPROVED DATA							
						PROJECT LEADER APPROVAL PENDING							
SAMP. NO	QCC	M	DESCRIPTION	SAMPLE # STATUS	CITY	STATE	AIRS/ STORET LOC NO	LAY- SECT	ER	BEG.	BEG.	END.	END.
										DATE	TIME	DATE	TIME
024	S		HAZ. WASTE LABEL-D006 & D008/BURNER	ASH 1	DAVENPORT	IOWA				12/16/97	15:20	12/16/97	15:20
025	S		HAZ. WASTE LABEL-D006 & D008/BURNER	ASH 1	DAVENPORT	IOWA				12/16/97	15:25	12/16/97	15:25
026	S		HAZ. WASTE LABEL-D006 & D008/BURNER	ASH 1	DAVENPORT	IOWA				12/16/97	15:30	12/16/97	15:30
027	S		HAZ. WASTE LABEL-NO OTHER INFO. ON LABEL	1	DAVENPORT	IOWA				12/16/97	15:35	12/16/97	15:35
028	S		HAZ. WASTE LABEL-D006 & D008/BURNER	ASH 1	DAVENPORT	IOWA				12/16/97	15:40	12/16/97	15:40
029	S		HAZ. WASTE LABEL-D006 & D008/BURNER	ASH 1	DAVENPORT	IOWA				12/16/97	15:45	12/16/97	15:45

# EXPLANATION OF CODES AND INFORMATION ON ANALYSIS REQUEST DETAIL REPORT

## SAMPLE INFORMATION:

SAMP. NO. = SAMPLE IDENTIFICATION NUMBER (A 3-DIGIT NUMBER WHICH IN COMBINATION WITH THE ACTIVITY NUMBER AND QCC, PROVIDES AN UNIQUE NUMBER FOR EACH SAMPLE FOR IDENTIFICATION PURPOSES)

QCC = QUALITY CONTROL CODE (A ONE-LETTER CODE USED TO DESIGNATE SPECIFIC QC SAMPLES. THIS FIELD WILL BE BLANK FOR ALL NON-QC OR ACTUAL SAMPLES):

B = CAL INCREASED CONCENTRATION FOR A LAB SPIKED DUP SAMPLE

D = MEASURED VALUE FOR FIELD DUPLICATE SAMPLE

F = MEASURED VALUE FOR FIELD BLANK

G = MEASURED VALUE FOR METHOD STANDARD

H = TRUE VALUE FOR METHOD STANDARD

K = CAL INCREASED CONCENTRATION FOR FIELD SPIKED DUP SAMPLE

L = MEASURED VALUE FOR A LAB DUPLICATE SAMPLE

M = MEASURED VALUE FOR LAB BLANK

N = MEASURED CONCENTRATION OF FIELD SPIKED DUPLICATE

P = MEASURED VALUE FOR PERFORMANCE STANDARD

R = CAL INCREASED CONCENTRATION RESULTING FROM LAB SPIKE

S = MEASURED CONCENTRATION OF LAB SPIKED SAMPLE

T = TRUE VALUE OF PERFORMANCE STANDARD

W = MEASURED CONCENTRATION OF LAB SPIKED DUPLICATE

Y = MEASURED CONCENTRATION OF FIELD SPIKED SAMPLE

Z = CAL INCREASED CONCENTRATION RESULTING FROM FIELD SPIKE

1 = MEASURED VALUE OF FIRST SPIKED REPLICATE

2 = MEASURED VALUE OF SECOND SPIKED REPLICATE

3 = MEASURED VALUE OF THIRD SPIKED REPLICATE

4 = MEASURED VALUE OF FOURTH SPIKED REPLICATE

5 = MEASURED VALUE OF FIFTH SPIKED REPLICATE

6 = MEASURED VALUE OF SIXTH SPIKED REPLICATE

7 = MEASURED VALUE OF SEVENTH SPIKED REPLICATE

M = MEDIA CODE (A ONE-LETTER CODE DESIGNATING THE MEDIA OF THE SAMPLE):

A = AIR H = HAZARDOUS WASTE/OTHER

S = SOLID (SOIL, SEDIMENT, SLUDGE)

T = TISSUE (PLANT & ANIMAL)

W = WATER (GROUND WATER, SURFACE WATER, WASTE WATER, DRINKING WATER)

DESCRIPTION = A SHORT DESCRIPTION OF THE LOCATION WHERE SAMPLE WAS COLLECTED

AIRS/STORET LOC. NO. = THE SPECIFIC LOCATION ID NUMBER OF EITHER OF THESE NATIONAL DATABASE SYSTEMS, AS APPROPRIATE

DATE/TIME INFORMATION = SPECIFIC INFORMATION REGARDING WHEN THE SAMPLE WAS COLLECTED

BEG. DATE = DATE SAMPLING WAS STARTED

BEG. TIME = TIME SAMPLING WAS STARTED

END DATE = DATE SAMPLING WAS COMPLETED

END TIME = TIME SAMPLING WAS COMPLETED

NOTE: A GRAB SAMPLE WILL CONTAIN ONLY BEG. DATE/TIME

A TIMED COMPOSITE SAMPLE WILL CONTAIN BOTH BEG AND END DATE/TIME TO DESIGNATE DURATION OF SAMPLE COLLECTION

## OTHER CODES

V = VALIDATED

## ANALYTICAL RESULTS/MEASUREMENTS INFORMATION:

COMPOUND = MGP (MEDIA-GROUP-PARAMETER) CODE AND NAME OF THE MEASURED CONSTITUENT OR CHARACTERISTIC OF EACH SAMPLE

UNITS = SPECIFIC UNITS IN WHICH RESULTS ARE REPORTED:

C = CENTIGRADE (CELSIUS) DEGREES

CFS = CUBIC FEET PER SECOND

GPM = GALLONS PER MINUTE

IN = INCHES

I.D. = SPECIES IDENTIFICATION

KG = KILOGRAM

L = LITER

LB = POUNDS

MG = MILLIGRAMS (1 X 10<sup>-3</sup> GRAMS)

MGD = MILLION GALLONS PER DAY

MPH = MILES PER HOUR

HV = MILLIVOLT

M/F = MALE/FEMALE

M2 = SQUARE METER

M3 = CUBIC METER

NA = NOT APPLICABLE

NG = NANOGRAMS (1 X 10<sup>-9</sup> GRAMS)

NTU = NEPHELOMETRIC TURBIDITY UNITS

PC/L = PICO (1 X 10<sup>-12</sup>) CURRIES PER LITER

PG = PICOGRAMS (1 X 10<sup>-12</sup> GRAMS)

P/CM2 = PICOGRAMS PER SQUARE CENTIMETER

SCH = STANDARD CUBIC METER (1 ATM, 25 C)

SQ FT = SQUARE FEET

SU = STANDARD UNITS (PH)

UG = MICROGRAMS (1 X 10<sup>-6</sup> GRAMS)

UMHOS = MICROMHOS/CM (CONDUCTIVITY UNITS)

U/CC2 = MICROGRAMS PER 100 SQUARE CENTIMETERS

U/CM2 = MICROGRAMS PER SQUARE CENTIMETER

1000G = 1000 GALLONS

+/- = POSITIVE/NEGATIVE

# = NUMBER

DATA QUALIFIERS = SPECIFIC CODES USED IN CONJUNCTION WITH DATA VALUES TO PROVIDE ADDITIONAL INFORMATION ON THE REPORTED RESULTS, OR USED TO EXPLAIN THE ABSENCE OF A SPECIFIC VALUE:

BLANK = IF FIELD IS BLANK, NO REMARKS OR QUALIFIERS ARE PERTINENT. FOR FINAL REPORTED DATA, THIS MEANS THAT THE VALUES HAVE BEEN REVIEWED AND FOUND TO BE ACCEPTABLE FOR USE.

I = INVALID SAMPLE/DATA - VALUE NOT REPORTED

J = THE ASSOCIATED NUMERICAL VALUE IS AN ESTIMATED QUANTITY

K = ACTUAL VALUE OF SAMPLE IS < VALUE REPORTED

L = ACTUAL VALUE OF SAMPLE IS > VALUE REPORTED

M = DETECTED BUT BELOW THE LEVEL OF REPORTED VALUE FOR ACCURATE QUANTIFICATION

O = PARAMETER NOT ANALYZED

U = THE MATERIAL WAS ANALYZED FOR, BUT WAS NOT DETECTED. THE ASSOCIATED NUMERICAL VALUE IS THE SAMPLE DETECTION LIMIT.

## ANALYSIS REQUEST DETAIL REPORT

ACTIVITY: 8-AKXX5

LABORATORY APPROVED DATA  
PROJECT LEADER APPROVAL PENDING

COMPOUND	UNITS	001	002	003	004	005
SM46 SILVER, TCLP	MG/L	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
SM47 ARSENIC, TCLP	MG/L	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U
SM48 BARIUM, TCLP	MG/L	0.228 U	0.284 U	0.766 U	2.06	2.74
SM49 CADMIUM, TCLP	MG/L	0.0050 U	0.0051	0.0206	0.0181	0.0054
SM50 CHROMIUM, TCLP	MG/L	0.156	0.0177	0.0513	0.224	4.93
SM51 LEAD, TCLP	MG/L	1.14	0.0500 U	67.5	48.7	0.245
SM52 SELENIUM, TCLP	MG/L	0.0500 U	0.0500 U	0.0591	0.0542	0.0500 U
ZZ01 SAMPLE NUMBER	NA	001	002	003	004	005
ZZ02 ACTIVITY CODE	NA	AKXX5	AKXX5	AKXX5	AKXX5	AKXX5

## ANALYSIS REQUEST DETAIL REPORT

ACTIVITY: 8-AKXX5

LABORATORY APPROVED DATA  
PROJECT LEADER APPROVAL PENDING

COMPOUND	UNITS	006	007	008	009	010
M46 SILVER, TCLP	MG/L	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
M47 ARSENIC, TCLP	MG/L	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U
M48 BARIUM, TCLP	MG/L	0.523 U	2.55	0.452	1.23	1.37
M49 CADMIUM, TCLP	MG/L	0.0062	0.0050 U	0.0050 U	0.0675	0.0121
M50 CHROMIUM, TCLP	MG/L	0.151	0.0504	0.223	0.233	0.0736
M51 LEAD, TCLP	MG/L	54.6	19.0	4.30	7.89	1.94
M52 SELENIUM, TCLP	MG/L	0.0531	0.0500 U	0.0500 U	0.0500 U	0.0500 U
001 SAMPLE NUMBER	NA	006	007	008	009	010
002 ACTIVITY CODE	NA	AKXX5	AKXX5	AKXX5	AKXX5	AKXX5

## ANALYSIS REQUEST DETAIL REPORT

ACTIVITY: 8-AKXX5

LABORATORY APPROVED DATA  
PROJECT LEADER APPROVAL PENDING

COMPOUND	UNITS	011	012	013	014	015
SM46 SILVER, TCLP	MG/L	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
SM47 ARSENIC, TCLP	MG/L	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U
SM48 BARIUM, TCLP	MG/L	1.39	1.54	0.747	1.09	1.16
SM49 CADMIUM, TCLP	MG/L	0.0698	0.0312	0.0050 U	0.0510	0.0734
SM50 CHROMIUM, TCLP	MG/L	0.144	0.391	0.232	0.102	0.328
SM51 LEAD, TCLP	MG/L	2.22	20.4	2.67	28.4	29.5
SM52 SELENIUM, TCLP	MG/L	0.0500 U	0.0500 U	0.0500 U	0.0530	0.0500 U
ZZ01 SAMPLE NUMBER	NA	011	012	013	014	015
ZZ02 ACTIVITY CODE	NA	AKXX5	AKXX5	AKXX5	AKXX5	AKXX5

## ANALYSIS REQUEST DETAIL REPORT

ACTIVITY: 8 AKXX5

LABORATORY APPROVED DATA  
PROJECT LEADER APPROVAL PENDING

COMPOUND	UNITS	016	017	018	019	020
SM46 SILVER, TCLP	MG/L	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
SM47 ARSENIC, TCLP	MG/L	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U
SM48 BARIUM, TCLP	MG/L	1.39	1.94	6.68	0.911	1.49
SM49 CADMIUM, TCLP	MG/L	0.0121	0.0312	0.0773	0.0199	0.0882
SM50 CHROMIUM, TCLP	MG/L	0.125	14.6	9.49	0.0729	0.170
SM51 LEAD, TCLP	MG/L	16.5	0.0585	1.42	1.46	25.3
SM52 SELENIUM, TCLP	MG/L	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U
2201 SAMPLE NUMBER	NA	016	017	018	019	020
2202 ACTIVITY CODE	NA	AKXX5	AKXX5	AKXX5	AKXX5	AKXX5

## ANALYSIS REQUEST DETAIL REPORT

ACTIVITY: 8-AKXX5

LABORATORY APPROVED DATA  
PROJECT LEADER APPROVAL PENDING

COMPOUND	UNITS	021	022	023	024	025
SM46 SILVER, TCLP	MG/L	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
SM47 ARSENIC, TCLP	MG/L	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U
SM48 BARIUM, TCLP	MG/L	0.864	0.516	1.44	2.92	3.26
SM49 CADMIUM, TCLP	MG/L	0.0097	0.0050 U	0.0893	0.0927	0.0806
SM50 CHROMIUM, TCLP	MG/L	0.140	0.271	0.479	0.376	0.0665
SM51 LEAD, TCLP	MG/L	103	0.526	23.1	17.3	1.30
SM52 SELENIUM, TCLP	MG/L	0.0801	0.0500 U	0.0500 U	0.0500 U	0.0500 U
ZZ01 SAMPLE NUMBER	NA	021	022	023	024	025
ZZ02 ACTIVITY CODE	NA	AKXX5	AKXX5	AKXX5	AKXX5	AKXX5

## ANALYSIS REQUEST DETAIL REPORT

ACTIVITY: 8-AKXX5

LABORATORY APPROVED DATA  
PROJECT LEADER APPROVAL PENDING

COMPOUND	UNITS	026	027	028	029
SM46 SILVER, TCLP	MG/L	0.0100 U	0.0100 U	0.0100 U	0.0100 U
SM47 ARSENIC, TCLP	MG/L	0.0500 U	0.0500 U	0.0500 U	0.0500 U
SM48 BARIUM, TCLP	MG/L	2.19	1.55	0.465 U	0.720 U
SM49 CADMIUM, TCLP	MG/L	0.0410	0.0291	0.0050 U	0.0050 U
SM50 CHROMIUM, TCLP	MG/L	1.30	0.189	0.100	0.0943
SM51 LEAD, TCLP	MG/L	85.6	84.0	3.49	1.97
SM52 SELENIUM, TCLP	MG/L	0.0815	0.0745	0.0500 U	0.0500 U
ZZ01 SAMPLE NUMBER	NA	026	027	028	029
ZZ02 ACTIVITY CODE	NA	AKXX5	AKXX5	AKXX5	AKXX5



LABORATORY APPROVED DATA  
PROJECT LEADER APPROVAL PENDING

ACTIVITY AKXX5 R.V. HOPKINS

THE PROJECT LEADER SHOULD CIRCLE ONE - STORET, AIRS, OR ARCHIVE.

CIRCLE ONE:      STORET      AIRS      ARCHIVE

DATA APPROVED BY LABO FOR TRANSMISSION TO PROJECT LEADER ON 02/20/98 14.58.21 BY

*Alc Moore*

**PUBLICATION TRACKING FORM**  
(To Be Completed By Project Manager/Author)

PROJECT TITLE/SITE NAME: R. U. Hopkins, Inc.  
 PROJECT MANAGER/AUTHOR: Rick Clayton  
 PROJECT DIRECTOR/STARTL: H. Q. Va  
 TECHNICAL EDITOR: G. Haden  
 PEER REVIEWER: \_\_\_\_\_  
 GRAPHICS: M. H. Va

JOB NO.: KJF103  
 TDD NO.: 507-9711-007  
 PAN NO.: 0687 RV5FXX  
 NATURE OF DOCUMENT: Site Assessment  
 WORD PROCESSOR: \_\_\_\_\_  
 DUE DATE: 5/20/98

STEP	LIST ALL REVIEWERS/WORD PROCESSORS IN PREFERRED SEQUENCE	DATE SUBMITTED	DATE REQUIRED	REVIEWED BY/TYPED BY	
				INITIALS	DATE
1	<u>G. Haden</u>	<u>3/20/98</u>		<u>GH</u>	<u>3/23/98</u>
2	<u>R. Clayton</u>			<u>RC</u>	<u>3/25/98</u>
3	<u>H. Q. Va</u>	<u>4/16/98</u>		<u>HQ</u>	<u>4/21/98</u>
4		<u>4/21/98</u>		<u>RC</u>	
5					
6					
7					
8					
9					
10					

**PREFERRED FINAL APPROVAL STEPS**

11	Project Director/STARTL Approval			<u>RC</u>	<u>4/21/98</u>
12	Word Processor/Finalize/Format/Put on Letterhead			<u>GH</u>	<u>4/21/98</u>
13	Project Director/STARTL Sign-off (Gives to support staff to make copies)				
14	Word Processor Sign-off (Copies and Sends Out)				

**PRIORITY LEVEL:**

Please circle appropriate number and initial in the space provided.

1+

1

2

3

**SPECIAL INSTRUCTIONS:**

AOC Description Attached? X

STARTL/ASTARTL Initials (Draft AOC)?

Spell Check? -Dates? 3/20/98

Copies Made? Number? 1

Other Instructions: See 4 mile under TDD, RV 2

DATE FILED: 5-1-98 (LKS)

The following are instructions for use of the new Publication Tracking Form.

Prior to preparing a publication, it is the responsibility of the project manager to:

- Conduct a pre-publication integrated planning meeting to determine roles and responsibilities of each person involved with the publication process. All information pertaining to the publication and names of key members should be filled-in on the top portion of the form.
- Define the routing of the publication and interim required dates to the best of the project manager's and key member's availability. This information should be filled-in on the middle portion of the form **BEFORE** this form/report leaves the author's hands.

**IF STEPS CANNOT BE FOLLOWED IN SEQUENCE—GO TO NEXT STEP. IF AUTHOR CANNOT SIGN-OFF—GIVE TO HIEU VU OR JOE CHANDLER (FOR START REPORTS); TO JOHN CAOILE (FOR COMMERCIAL REPORTS).**

- Include any special instructions concerning formats and production of the publication (i.e., how many copies, table format, large-size maps, attachments, materials needed for binding/presentation purposes, etc.), or any other comments on the bottom section of the form.